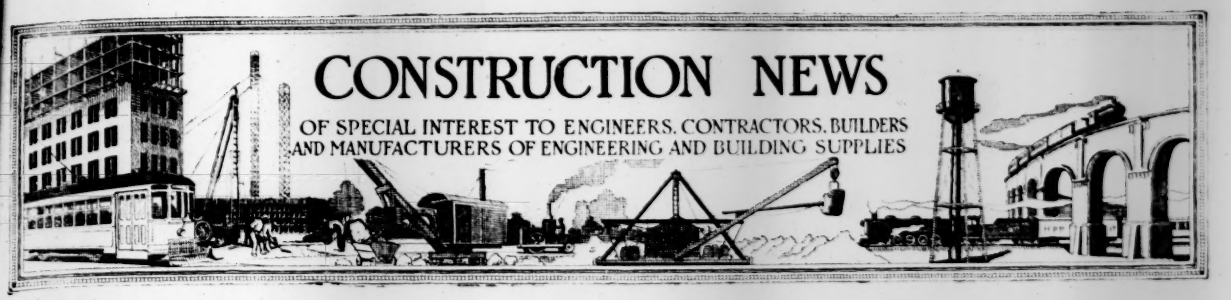

CONSTRUCTION NEWS

OF SPECIAL INTEREST TO ENGINEERS, CONTRACTORS, BUILDERS AND MANUFACTURERS OF ENGINEERING AND BUILDING SUPPLIES

PROPOSALS

"For Proposals Advertised see the pages immediately following the Construction News Section."

WATERWORKS

Bids Close		See Eng. News-Record
Aug. 25	Grey Bull, Wyo.	Aug. 14
Aug. 25	Williamston, N. C.	Aug. 21
Aug. 25	Royal Oak, Mich.	Aug. 14
Aug. 26	Dalhousie, N. B.	Aug. 21
Aug. 29	Spirit Lake, Ia.	Aug. 21
Aug. 30	Berwick, N. S.	Aug. 14
Aug. 30	Clarksburg, W. Va. Adv. Aug. 7.	Aug. 7
Sept. 17	Kansas City, Mo.	Aug. 21

SEWERS

Aug. 25	Walnut Grove, Minn.	Aug. 7
Aug. 25	Lima, O. Adv. Aug. 7.	Aug. 7
Aug. 25	Royal Oak, Mich.	Aug. 14
Aug. 25	Fairhaven, Mass. Adv. Aug. 14.	Aug. 14
Aug. 26	Hartley, Ia.	Aug. 21
Aug. 28	New York, N. Y.	Aug. 21
Sept. 1	Walnut Grove, Minn.	Aug. 21
Sept. 1	Inwood, Ia.	Aug. 21
Sept. 3	Pocahontas, Ia.	Aug. 21
Sept. 4	Richmond, Ky. Adv. Aug. 21.	Aug. 21

BRIDGES

Aug. 25	Willoughby, O.	Aug. 7
Aug. 25	Great Falls, Mont.	Aug. 7
Aug. 25	Underwood, Wash.	Aug. 14
Aug. 25	Washington, Pa.	Aug. 21
Aug. 26	Kingwood, W. Va.	Aug. 21
Aug. 26	Lockhart, S. C. Adv. Aug. 14.	Aug. 14
Aug. 26	Salt Lake City, Utah.	Aug. 21
Aug. 26	Lagrange, Ga.	Aug. 21
Aug. 26	Charleston, Mo.	Aug. 21
Aug. 27	Monroe, Ga.	Aug. 21
Aug. 29	Beaufort, S. C.	Aug. 21
Aug. 29	Watertown, N. Y. Adv. Aug. 21.	Aug. 21
Sept. 1	Duluth, Minn.	Aug. 14
Sept. 2	Chester, S. C.	Aug. 21
Sept. 2	Minneapolis, Minn.	Aug. 14
Sept. 2	Blue Earth, Minn.	Aug. 21
Sept. 3	Dubois, Pa.	Aug. 21
Sept. 3	Three Rivers, Cal.	Aug. 21
Sept. 3	Toledo, O.	Aug. 14
Sept. 9	Duluth, Minn.	Aug. 14
Sept. 12	Schenectady, N. Y. Adv. Aug. 21.	Aug. 21
Sept. 16	Wayne, W. Va.	Aug. 21
Sept. 23	Harrisburg, Pa. Adv. Aug. 14.	Aug. 14

STREETS AND ROADS

Aug. 25	Ebensburg, Pa.	Aug. 7
Aug. 25	Indiana	Aug. 14
Aug. 25	Washington	Aug. 14
Aug. 25	California	Aug. 14
Aug. 25	Louisiana	Aug. 21
Aug. 25	Seguin, Tex.	Aug. 21
Aug. 25	Mt. Pleasant, Mich.	Aug. 21
Aug. 25	New York, N. Y.	Aug. 21
Aug. 25	Portland, Ore.	Aug. 21
Aug. 26	Charleston, Mo.	Aug. 21
Aug. 26	Michigan	Aug. 21
Aug. 26	North Carolina	Aug. 21
Aug. 26	Indiana	Aug. 14
Aug. 26	Maryland	Aug. 14
Aug. 26	Bordentown, N. J. Adv. Aug. 14.	Aug. 14
Aug. 26	Trenton, N. J. Adv. Aug. 14.	Aug. 14
Aug. 26	New York, N. Y.	Aug. 7
Aug. 26	Guntersville, Ala.	July 31
Aug. 27	Long Island City, N. Y.	Aug. 21
Aug. 27	Peru, Neb.	Aug. 7
Aug. 27	Welch, W. Va.	Aug. 14
Aug. 27	Middletown, Del.	Aug. 14
Aug. 27	New Jersey Adv. Aug. 14.	Aug. 14
Aug. 27	Princeton, W. Va.	Aug. 21
Aug. 28	New York, N. Y.	Aug. 21
Aug. 28	St. Armand, Que.	Aug. 21
Aug. 28	Brooklyn, N. Y.	Aug. 21
Aug. 28	Helena, Ark.	Aug. 14
Aug. 28	Martinsburg, W. Va.	Aug. 14
Aug. 28	Camden, N. J. Adv. Aug. 14.	Aug. 14
Aug. 28	Xenia, O.	Aug. 21
Aug. 28	Edgefield, S. C.	Aug. 21
Aug. 29	Greenfield, Ind.	Aug. 14
Aug. 29	Port Arthur, Tex.	Aug. 21
Aug. 29	Ebensburg, Pa.	Aug. 21
Aug. 30	Berkeley Springs, W. Va.	Aug. 21
Aug. 30	St. Martine, Que.	Aug. 14
Sept. 1	Arcadia, Fla.	Aug. 7
Sept. 1	Salt Lake City, Utah	July 24
Sept. 1	Alexandria, La.	Aug. 21
Sept. 2	Waterville, Wash.	Aug. 21
Sept. 2	Pascagoula, Miss. Adv. Aug. 21	Aug. 21
Sept. 2	North Carolina	Aug. 21
Sept. 2	Louisiana	Aug. 21
Sept. 2	Independence, Mo.	Aug. 7
Sept. 2	Minneapolis, Minn.	Aug. 14
Sept. 2	Washington, Ga.	Aug. 14
Sept. 2	Sylacauga, Ala.	Aug. 14
Sept. 2	Maryland Adv. Aug. 21	Aug. 21
Sept. 3	Maine	Aug. 21
Sept. 3	Toledo, O.	Aug. 14
Sept. 3	Moultrie, G.	Aug. 14
Sept. 4	Fulton, Mo.	Aug. 21
Sept. 4	Rochester, N. Y. Adv. Aug. 21.	Aug. 21
Sept. 5	Little Rock, Ark.	Aug. 21
Sept. 8	Seattle, Wash.	Aug. 21
Sept. 8	Indiana	Aug. 14
Sept. 8	Monroe, Ga.	Aug. 21
Sept. 9	New York, N. Y. Adv. Aug. 21.	Aug. 21
Sept. 9	Keyser, W. Va. Adv. Aug. 21	Aug. 21
Sept. 9	Jersey City, N. J.	Aug. 21
Sept. 10	Bentonville, Ark.	Aug. 21
Sept. 10	Delaware Adv. Aug. 21	Aug. 21
Sept. 10	Waterloo, Ia.	Aug. 21
Sept. 16	Prosser, Wash.	Aug. 21
Sept. 16	New Orleans, La.	Aug. 21
Sept. 18	Marion, Ark.	Aug. 21
Oct. 10	Tacoma, Wash. Adv. Aug. 14.	Aug. 14

EXCAVATION AND DREDGING

Aug. 25	New York, N. Y.	Aug. 21
Aug. 26	Emmetsburg, Ia.	Aug. 21
Aug. 28	Granite Falls, Minn.	Aug. 7
Sept. 2	Sanford, Ala.	Aug. 14
Sept. 5	Fort Dodge, Ia.	Aug. 21
Sept. 10	Toms River, N. J.	Aug. 21
Sept. 22	Tower, Minn.	Aug. 21

INDUSTRIAL WORKS

Aug. 23	Philadelphia, Pa.	Aug. 21
Sept. 1	Hastings, Minn.	Aug. 21

BUILDINGS

Aug. 25	Elizabeth, N. J.	Aug. 7
Aug. 25	Bayard, Neb.	Aug. 7
Aug. 25	Chicago, Ill.	Aug. 7
Aug. 25	Dongan Hills, S. I., N. Y.	Aug. 21
Aug. 25	Richmond, Va.	Aug. 21
Aug. 26	Wilhamsport, Pa.	Aug. 21
Aug. 26	Oklahoma	Aug. 21
Aug. 26	Weyburn, Sask.	Aug. 7
Aug. 26	Manhattan, Kan.	Aug. 14
Aug. 27	East White Plains, N. Y.	Aug. 14
Aug. 27	Stoutsville, O.	Aug. 7
Aug. 27	Toronto, Ont.	Aug. 21
Aug. 28	Amos, Que.	Aug. 21
Aug. 29	Toronto, Ont.	Aug. 21
Aug. 30	Northfield, Minn.	Aug. 21
Aug. 30	New Aberdeen, N. S.	Aug. 7
Aug. 30	Worcester, Mass.	Aug. 14
Aug. 30	Halifax, N. S.	Aug. 14
Sept. 1	St. Louis, Mo.	Aug. 21
Sept. 1	Omaha, Neb.	July 17
Sept. 1	Ft. Worth, Tex.	Aug. 14
Sept. 1	Cameron, Tex.	Aug. 14
Sept. 1	Miamisburg, O.	Aug. 14
Sept. 1	Outremont, Que.	Aug. 14
Sept. 1	Willmar, Minn.	Aug. 21
Sept. 2	Twin Falls, Idaho	Aug. 21
Sept. 2	Merced, Cal.	Aug. 21
Sept. 2	Okmulgee, Okla.	Aug. 21
Sept. 3	Trenton, N. J.	Aug. 14
Sept. 3	Victoria, Tex.	Aug. 14
Sept. 4	Hartsdale, N. Y.	Aug. 21
Sept. 4	Bayonne, N. J.	July 31
Sept. 4	Peterborough, Ont.	Aug. 14
Sept. 4	Lyndon, Kan.	Aug. 21
Sept. 4	Troy, N. Y.	Aug. 21
Sept. 5	San Francisco, Cal.	Aug. 21
Sept. 6	Fairview, Pa.	Aug. 14
Sept. 11	Minneapolis, Minn.	Aug. 21
Sept. 11	Superior, Wis.	Aug. 21
Sept. 12	Cloquet, Minn.	Aug. 21
Sept. 15	Pleasant Grove, Utah	July 24
Sept. 15	St. Paul, Minn.	Aug. 14

FEDERAL GOVERNMENT WORK

Aug. 25	Fuel Oil—Washington, D. C.	Aug. 14
Aug. 25	Post Office—Mystic, Conn.	July 31
Aug. 26	Dredging—Honolulu, H. T. Adv. June 26.	June 26
Aug. 27	Sea Wall — New York, N. Y. Adv. July 31.	July 31
Aug. 27	Equipment—New Orleans, La.	Aug. 21
Aug. 27	Electric Lighting and Power System, Spec. 3982, Mare Island, Cal.	Aug. 14
Aug. 27	Dredging—Norfolk, Va. Adv. July 31.	July 31
Aug. 27	Lock and Abutment Louisville, Ky. Adv. July 31.	July 31
Aug. 28	Road Work — Aberdeen, Md. Adv. Aug. 21.	Aug. 21
Aug. 29	Post Office—Fayette, Mo.	July 24
Aug. 29	Dredging — New York, N. Y. Adv. July 31.	July 31
Aug. 29	Breakwater—Chicago, Ill. Adv. Aug. 7.	Aug. 7
Aug. 30	Road Work—Montana	Aug. 21
Sept. 2	Towboat—Memphis, Tenn.	Aug. 7
Sept. 2	Miscellaneous Equipment—Washington, D. C. Adv. July 10 and 17.	July 10
Sept. 2	Post Office—Kansas City, Mo.	July 24
Sept. 2	Dredging—New York, N. Y. Adv. Aug. 7.	Aug. 7
Sept. 4	Boiler Plant — Stapleton, N. Y. Adv. Aug. 21.	Aug. 21
Sept. 4	Bridge—Arizona	Aug. 21
Sept. 5	Post Office — Montevideo, Minn.	Aug. 14
Sept. 7	Alterations to Post Office—Detroit, Mich. Adv. Aug. 21	Aug. 21
Sept. 8	Hangar—Lakehurst, N. J. Spec. 4001	Aug. 21
Sept. 8	Post Office—Carroll, Ia.	Aug. 14
Sept. 10	Post Office—Douglas, Ga.	July 31
Sept. 10	Water and Sewer Systems and Fuel Oil Reservoir—Spec. 4007, San Diego, Cal.	Aug. 21
Sept. 11	Earthwork — Memphis, Tenn. Adv. Aug. 21	Aug. 21

Bids Close		See Eng. News-Record
Sept. 12	Remodeling Electric Passeager Elevator — Chicago, Ill. Adv. Aug. 21	Aug. 21
Sept. 12	Pumps — New Haven, Conn. Adv. Aug. 21	Aug. 21
Sept. 15	Earthwork—St. Louis, Mo. Adv. Aug. 21	Aug. 21
Sept. 15	Post Office—Winnemucca, Nev. Adv. Aug. 21	Aug. 21
Sept. 15	Kitchen and Mess Hall — Stapleton, N. Y. Adv. Aug. 21	Aug. 21
Sept. 18	Jetty Repair — Wilmington, Del. Adv. Aug. 21	Aug. 21
Sept. 18	Post Office—North Topeka Kan.	Aug. 14
Sept. 22	Material—Charlestown, W. Va.	Aug. 21
Sept. 22	Post Office — Charleston, W. Va.	Aug. 21
Sept. 26	Post Office and Custom House—Providence, R. I. Adv. Aug. 21.	Aug. 21
Oct. 1	Valves, Gates, etc.—Denver, Colo. Adv. Aug. 21	Aug. 21
Nov. 3	Post Office and Court House —Honolulu, H. T.	Aug. 21

MISCELLANEOUS

Aug. 25	Railway Ties — Toronto, Ont.	Aug. 7
Aug. 25	Cistern—Duluth, Minn.	Aug. 21
Aug. 26	Column Foundations—Philadelphia, Pa.	Aug. 14
Aug. 28	Silo—Savannah, Ga.	July 24
Aug. 28	Wharf—Sillery, Que.	Aug. 14
Aug. 29	Water Machinery—Trenton, N. J.	Aug. 21
Aug. 29	Protection Works — Laprairie, Que.	Aug. 21
Sept. 2	Sewage Pumping Machinery —Los Angeles, Cal.	Aug. 21
Sept. 2	Pier Shed—Seattle, Wash.	Aug. 21
Sept. 2	Bulkhead, Wharf and Shelter Sheds, Wilmington, Del. Adv. Aug. 21	Aug. 21
Sept. 5	Pump—Bruce, S. D.	Aug. 21
Sept. 12	Dam—Decatur, Ill.	Aug. 14
Sept. 15	Levee—Alexandria, La.	Aug. 14
Sept. 23	Turbines, etc.—Saskatoon, Sask. Adv. July 24	July 24

Where name of official is not given, inquiries should be addressed to City Clerk, County Clerk or corresponding official.

Waterworks

PROPOSED WORK

Va., Orange—Town voted $70,000 bonds to improve waterworks system, including filter plant, pumping equipment and force main. A. J. Harlow, mayor.

N. C., Franklinton—City soon receives bids building waterworks system. About $40,000. Engineer not selected.

S. C., Mullins—City will sell $20,000 bonds Sept. 1 to build waterworks and sewerage systems. Engineer not selected.

O., Columbus—City Council will be asked to appropriate funds for extending waterworks system, as recommended by J. H. Gregory, engr. Plans include new 67 ft. dam, 6,120,000,000 gal. capacity, in Scioto River above Dublin, cost $1,250,000, raising present dam 6 ft., $297,000, and reinforcements for distributing system, $550,000.

Mich., Ecorse—Village soon lets contract building elevated steel tank with capacity of 150,000 gal., 2 motor driven centrifugal pumps, with capacity of 500 gal. per minute, rein.-con. reservoir, 500,000 gal. capacity, and 8000 ft. water pipe. Separate bids on steel tank and on rest of job complete. R. A. Murdock, 706 Free Press Bldg., Detroit, engr.

Mich., River Rouge—Village soon lets contract furnishing labor and materials laying 4330 ft. 6 in. and 580 ft. 8 in. water pipe with specials and hydrants, to connect with Detroit city mains. About $15,000. G. Jerome, 1331 Majestic Bldg., Detroit, engr.

Minn., Mankato — City Council authorized $12,000 bonds to build waterworks.

Kan., Chanute — City voted $250,000 bonds to build waterworks and electric light plant.

Kan., Cherryvale—City plans to build extension to waterworks. About $40,000. Black & Veatch, Interstate Bldg., Kansas City, Mo., engrs.

Kan., Pretty Prairie — City election Aug. 28, to vote on $32,000 bonds to build waterworks. W. B. Rollins & Co., 209 Royal Exch., Kansas City, Mo., engrs.

Okla., Enid—City voted $320,000 bonds to build waterworks. Engineer not selected.

Utah, Provo—City plans to install 4 mi. 12 in. pipes from here to Pleasant View. About $20,000. R. Ferrer, supt. of waterworks.

Ariz., Phoenix—City had plans prepared for rein.-con. water conduit from Central to 3rd Aves. About $28,000. L. B. Hitchcock, city engr.

Ariz., Roosevelt—Salt River Valley Water Users Assn., Phoenix, plans to build 5000 k.w. steam generating plant for furnishing power to about 60 pumps which will be used to lower underground water level. C. A. Van der Veer, secy.

Cal., Arcadia—City voted $150,000 bonds to sink well, build 1,000,000 gal. concrete reservoir and smaller reservoir, lay 15 mi. pipe line and install 2 booster pumps and 1 pump at well. H. S. Gierlich, city engr. Noted May 22.

Cal., Oildale—Oildale Water Dist. No. 1 voted $20,000 additional bonds, making a total of $40,000, to sink wells, install pumps and lay pipe lines. Bids will soon be received. A. E. Stegeman, Bakersfield, co. surv. Noted Mar. 20.

Cal., San Diego—W. W. Patch, div. engr., state highway comn., Union League Bldg., Los Angeles, plans to build 15 mi. pipe line to bring water from Boundary Creek to Tecate Divide State Highway, San Diego Co. About $20,000.

Ont., Chatham—City having preliminary surveys, reports and estimates prepared by James, Loudon & Hertzberg, engrs., 36 Toronto St., Toronto, for new waterworks system, including intake, pumphouse, 5,000,000 gal. capacity rein.-con. reservoir, etc. About $200,000.

Ont., Forest—Town plans to build waterworks system to include electrically driven pumping equipment. Bylaw for same to be submitted soon. James, Loudon & Hertzberg, Excelsior Life Bldg., Toronto, engrs.

BIDS DESIRED

N. C., Williamston—Until Aug. 25, by Mayor, building complete waterworks and sewerage systems, including concrete or steel reservoir, water tower, 10 mi. water mains and 10 mi. sanitary sewers. About $50,000. G. N. Ambler, Richmond, Va., engr.

Ia., Dexter—H. H. Hough, city clk., receiving bids building waterworks system, including one 40,000 gal. standpipe, one 15 h.p. oil engine, one 200 gal. per minute pump, 29,000 ft. 4 and 6 in. c.i. pipe and 26 hydrants, etc. T. S. DeLay, Creston, engr.

Mo., Kansas City—Until Sept. 17th, by city purch. agt., City Hall, building 1 steam driven pumping unit. W. G. Goodwin, engr. and supt.; advertised in this issue.

Mo., Marysville—Until Sept. 2, by city, building 2 reservoirs, rein.-con. coagulatory plant, rein.-con. storage plant, two 600 g.p.m. motor-driven pumps, and one 7000 g.p.m. low service pump, involving 360 cu.yd. rein-con., 180 cu.yd. concrete and 30,000 cu.yd. excav. About $35,000. E. E. Harper, 2408 East 30th St., Kansas City, engr. Noted Aug. 14.

Tex., Port Arthur — Until Aug. 29, by L. A. Watter, city clk., furnishing and building 300,000 gal. elevated water tank. C. E. Ridley, city engr.

N. B., Dalhousie—Until Aug. 26, by F. W. Holt, engr., Canterbury St., St. John, building complete reservoir, here for city. About $35,000.

PRICES AND CONTRACTS AWARDED

(★Indicates award of contract.)

★N. C., Rutherfordton—City let contract laying 7500 ft. 6 and 8 in. pipes to J. E. Cogle, Rutherfordton; filter, to Norwood Eng. Co.; storage dam, clear water basin and pumps, to Gear & Wilson, Rutherfordton. Total cost $30,000.

★Mich., Grosse Pointe—Windmill Point Land Co., 2258 Penobscot Bldg., Detroit, let contract to T. H. Igelhart, 269 S. La Salle Ave., Chicago, furnishing labor and material laying 20,000 ft. 6 and 8 in. water mains in company's subdivision, to be connected with Detroit city mains. About $50,000.

★Wis., Milwaukee—Central Bd. Purchases let contract building 20,000,000 gal. pumping engine for North Point Pumping Station, to Allis-Chalmers Co., West Allis. About $225,000. Noted June 26.

★Minn., Farmington—E. H. Dorsey, city recdr., let contract laying 4800 ft. 6 in. water mains with valves, hydrants and accessories, to J. G. Ray, Wasseca. $12,750. Noted July 24.

★Minn., New Prague—J. T. Rynda, supt. waterworks system, let contract building 60,000 gal. steel tank, to Pittsburg Des Moines Steel Co., Des Moines, Ia. About $6200. Noted July 31.

★Minn., St. Cloud—City let contract furnishing and laying 17,600 ft. 8-in. water mains, to Gedney & Murphy, 612 Globe Bldg., Minneapolis, $68,750. Noted July 31.

★Kan., Caldwell—City let contract excavating and constructing buildings for waterworks, to T. C. Brooks & Son, Jackson, cost $14,700, furnishing cast iron piping, to Nat'l. Cast Iron Pipe Co., Commerce Bldg., Kansas City, Mo., $44,216.

★Neb., Omaha—Metropolitan Water Bd. let contract laying water mains, involving 1920 ft. 8 in. and 4911 ft. 6 in. c.i. pipes, to Katz Constr. Co., Brandeis Theatre Bldg. About $13,500.

★Mo., St. Louis—St. Louis Manufacturing Co., 5301 Natural Bridge Rd., let contract building skelton water tower, to A. H. Haeseler Bldg. & Contg. Co., Wainwright Bldg. About $8000.

Utah, Salt Lake City—City received bids building large conduit from reservoir in Parleys Canyon to Parleys High Line conduit, involving 15,850 ft. 48 in. cement pipes, 416 ft. 42 in. steel pipes, 24,000 ft. earth and 4000 ft. rock excav., from: E. Smith, Kearns Bldg., $215,818; Gibbons & Reed, Kearns Bldg., $220,501; P. J. Moran, 850 South 2nd St. W., $185,673. Noted June 19.

Wash., Seattle—Bd. Pub. Wks. received bids Aug. 8, laying water mains in 12th Ave., N. E., et al, from G. Alfonso, 6th N. W. and West 88th Sts., cost $12,183; S. A. Moceri, Seattle, $13,210; C. Christofaso, Seattle, $13,886.

★Cal., Los Angeles—Bd. Pub. Serv. Comn., 645 South Olive St., will build hydraulic till dam, 85 ft. high, 1235 ft. long at top, containing 570,000 cu.yd. earthwork, on Los Angeles Aqueduct near Chatsworth Park, to be known as San Fernando Reservoir No. 1. Work will be done by day labor under supervision of W. Mulholland, engr., 645 South Olive St.

Sewers

PROPOSED WORK

N. Y., Salamanca—Bd. Pub. Wks. plans to build additions to sewerage system in southwestern section of city. About $21,000.

N. Y., Schenectady—City rejected all bids building storm and surface sewers in Union St., Woodland and Palmer Aves. Work will be readvertised. L. Sebring, city engr.

N. J. Bayonne—City soon receives bids building sewer in easterly side Hudson Blvd. between 45th and 46th Sts., together with all necessary appurtenances. About $10,000. C. J. O'Neil, clk.

N. J., Jersey City—City soon receives bids building 18 in. vitr. pipe sewer in Summit Ave., 85 ft. north of Honard Pl. to connect with sewer in Fairmont Ave. About $10,000. C. Van Kueren, city engr.

Sewers (Continued)

Pa., Smithton — Boro. Council receives bids about Aug. 25, laying 6700 ft. 4 in. pipe from Rostraver Twp. to South Huntingdon Twp. Reservoir adjacent to here. About $10,000. D. R. Walkenshaw, Greensburg, engr.

S. C., Mullins—See "Waterworks."

Mich., Muskegon Heights (Muskegon P. O.)—City having plans prepared by Hoad & Decker, engrs., Engineering Bldg., Ann Arbor, building system of vitr. crock lateral sewers, with connections, specials and manholes.

Mich., Pontiac—City having tentative plans prepared by C. W. Hubbell, engr., 2248 Penobscot Bldg., Detroit, building trunk line relief sewerage system for entire city. About $500,000.

Mich., Royal Oak—M. J. Brown & Son, engrs., 821 Chamber of Commerce Bldg., Detroit, received no bids furnishing labor and material building complete sewerage system and sewage disposal plant, involving 2500 ft. 8-10 in. vitr. crock sewers, Imhoff tank, ejector station and sprinkling filter, in Vinsetta Park subdivision for Vinsetta Land Co. About $25,000. Work will be readvertised. Noted Aug. 14.

Kan., Belle Plaine—City plans to build sewers in various streets. About $45,000. W. B. Rollins & Co., 209 Ry. Exch. Bldg., Kansas City, Mo.; engrs.

Mo., St. Louis—J. W. Smith, engr., City Hall, soon receives bids extending Branch St. sewerage system. About $55,000.

Tex., Cleburne—City plans to build storm sewerage system. About $250,000.

Okla., Enid—City voted $180,000 bonds to build sewers. Engineer not selected.

Idaho, Rexburg—City council plans to install sewerage system throughout main streets. Vitr. or cement pipes. About $10,000.

Wash., Toppenish—City plans to build 10,000 ft. 8 and 10 in. sewers. Cost to exceed $10,000. M. Bartlett, Toppenish, engr.

Ore., Portland—City received no bids building sewers in East 77th St. from Oregon to Halsey Sts., and in East 76th St. from East Burnside to East Glisan Sts. About $10,000 each. O. Laurgaard, city engr. Noted Aug. 14.

BIDS DESIRED

N. Y., New York—Until Aug. 28, by H. Bruckner, pres. Bronx Boro., building storm water drain and appurtenances in East 233rd St. from Hutchinson River to Harper Ave., combined sewers and appurtenances in East 233rd St. from Harper to Monticello Aves., Pratt Ave. from East 233rd St. and North Line of City of New York, Bell Ave. between Pratt and Strang Aves., Duryea Ave. between East 233rd St. and Strang Ave., Amundsen Ave. between East 233rd St. and Strang Ave., Seton Ave. between East 233rd St. and the summit north of Strang Ave., Monticello Ave. between East 233rd St. and Strang Ave., Strang Ave. between Bell and Monticello Aves., and a temporary connection at East 233rd St. and Monticello Ave., also building sanitary sewers and appurtenances in Eden Terrace between Boston Rd. and property of City of New York at point midway between Crawford and Palmer Aves. and between Rattlesnake Creek and Eden Terrace from such point to a point about southeast corner of Eden Terrace and East 233rd St., and in East 233rd St. from such latter point to DeReimer Ave., DeReimer Ave. between East 233rd St. and Strang Ave. and combined sewers and appurtenances in Strang Ave. between Baychester and Grace Aves., Grace Ave. between Strang and Edenwald Aves., Edenwald Ave. between Grace and Ely Aves.

N. C., Williamston—See "Waterworks."

Ky., Richmond—Until Sept. 4, at office of L. P. Evans, mayor, building 30,831 ft. sanitary and storm sewers, with average cut of 8½ ft. S. F. Crecelius, city engr.; advertised in this issue.

Mich., Lansing—Until Sept. 2, by J. A. Parsons, city clk., building 11,370 ft. 8-36 in. sewers; city to furnish all pipe and castings; advertised in this issue.

Ia., Dexter—H. H. Hough, city clk., receiving bids building sewerage system and sewage disposal plant. Plans include 29,750 ft. 8-12 in. vitr. pipe, 28,880 cu.yd. earth trenching, 450 manholes, 62 cu.yd. filter concrete, 1030 cu.yd. filter sand and 82 cu.yd. filter gravel. T. S. DeLay, Creston, engr.

Ia., Hartley—Until Aug. 26, (change of date), by H. F. Broders, town clk., for construction of 1542 ft. rein.-con. rectangular sewer, ranging in size from 5 ft. x 5 ft. to 3 ft. 6 in. x 3 ft., 386 ft. 36 in. circular sewer, vitr. or segmental block, 1340 ft. 33 in. circular sewer, vitr. or segmental block, 2679 ft. 8-24 in. vitr. sewer pipe, etc. H. R. Green, 197 North 2nd St., Cedar Rapids, engr. Noted Aug. 14.

Ia., Inwood—Until Sept. 1, by city, building sewerage system and sewage disposal plant. C. H. Currie, Webster City, engr.

Ia., Pocahontas—Until Sept. 3, by city, building sewerage system and sewage disposal plant. C. H. Currie, Webster City, engr.

Minn., Walnut Grove—Until Sept. 1, by D. A. Malloy, rec., laying 4465 ft. 80 in. vitr. sewer tile, 2977 ft. 8 in., 1102 ft. 10 in., including 12 lampholes, 62 manholes and disposal plant with septic tank. About $50,000. Druar & Smith, 513 Globe Bldg., St. Paul, engrs. Noted June 12.

PRICES AND CONTRACTS AWARDED

(★Indicates award of contract)

★Mass., West Springfield—City let contract building 8 x 10 in. vitr. pipe sewers, 6 and 7 ft. deep, in various streets, to Middlesex Constr. Co., 7 Water St., Boston, $18,363.

★Conn., Portland—Sewer Comm. let contract building sewers in Central Sect., to S. Mazzotta, 90 Spring St., Middletown, $45,560. Noted July 31.

N. Y., New York—F. L. Dowling, pres. Manhattan Boro., received bids Aug. 11, reconstructing sewers in (a) East 72nd St. from 1st to 2nd Aves., (b) F St. and in continuation thereof, now known as Prescott Ave., from Dyckman St. to point 750 ft. north, from Reily Contg. Co., 118 East 89th St., (a) $19,304, (b) $15,327; Walton Contg. Co., 147 West 125th St., (a) $19,351; P. J. Kearns, 2306 Creston Ave., (a) $19,741; A. Gasparini, 1964 Honeywell Ave., (b) $15,311; Lexington Constr. Co., (b) $15,553. Noted Aug. 7.

★O., Hamilton—City let contracts to W. M. Davis, Hamilton, building 18 in. sanitary sewers in Ridgelawn Ave., cost $8075, 24 in. storm sewers in Liberty St., $4426; J. L. Walker Co., 231 Court St., building 12-18 in. sanitary sewers in 9th St., $9700.

★ Mich., Detroit — City let contract building Virginia Park Relief Sewer in Virginia Park from Wilson to 14th Aves., to W. Blanck & Co., 817 Forn Bldg. About $34,787. Work involves 1920 ft. 4 in. brick pipe. Noted Aug. 14.

★Mich., Ecorse—City let contract furnishing labor and material trenching, laying pipes and backfilling complete storm sewer in St. Cosme Ave., to Oakwood Constr. Co., 165 Fort Blvd., Detroit. About $17,500. Work involves 3000 ft. 12-24 in. vitr. pipe. Noted June 12.

★Mich., Port Huron—City let contract to C. Mugovero, Port Huron, building lateral sewers in alleys of blocks 181, 204 and 225, from Howard to Pine Sts., cost $2408, blocks 180, 205 and 224, from Pine to Wall Sts., $2612, blocks 179, 206 and 223, from Wall to Court Sts., $2668, blocks 178, 207 and 222, from Court to Union Sts., $4065, blocks 177, 208 and 221, from Union to Chestnut Sts., $4128, blocks 176, 209 and 220, from Chestnut to White Sts., $4121, Jenminson St., from 7th to 10th St., $11,661; to J. Kaumeier, Port Huron, building lateral sewers in Garfield St. from 10th to 12th Aves., $4534, and in 15th St. from North to Beard Sts., $12,061. Noted Aug. 7.

★Mont., Lewiston — City let contract building storm sewers and 3905 ft. 8 in. sanitary sewers in Storm Sewer Dist. No. 5, to V. Sigvardt, 509 West Behb St., storm sewers, $8207; sanitary sewers, $5894. Noted June 19.

★Wash., Vancouver—City Council let contract building 8 in. sewer in alley between 28th and 29th Sts., from Main to Harney Sts., to C. E. Braley, 1916 Reserve St., $4984; in alley between B and C Sts. from 19th to 25th Sts. and from 25th to 26th Sts., to M. R. Sparks, Vancouver, $5231. Noted Aug. 7.

Ore., Portland—City received bids Aug. 8 building sewerage system in (a) East 37th St. and Raymond Ave., (b) 55th Ave. S. E. and Harold Ave., (1) cement, (2) vitr., from Jacobsen-Jensen Co., 407 Stanton St., (a1) $42,819, (b1) $184,813; J. F. Shea, North 2nd St., (a2) $40,655, (b2) $154,756; Azar & Co., Portland, (a) $42,318. Noted Aug. 14.

Cal., Los Angeles—City received bids building cement pipe sewers in Homer St. et al., from W. Gosling, 3853 Montclair St., $24,888; A. Dalmatin, 818 East 40th St., $28,700; B. Deragno, Los Angeles, $35,807.

★Cal., Redwood City—City let contract building outfall sewers, to Dreyfus Bros., San Mateo, $20,742. Noted June 19.

★N. B., Moncton—City let contract building complete sewerage system in Baraccord St., to L. Stephen & Co., St. John, $12,786.

Bridges

PROPOSED WORK

Conn., New Haven—City plans to issue $250,000 bonds to build concrete and steel bridge over Quinnipiac River near Belle Rock.

Pa., Sunbury—Comrs. Northumberland Co. soon let contract building rein.-con. girder bridge over Chillisquaque Creek, in West Chillisquaque Twp. O. Kramer, co. controller. Noted Oct. 10.

W. Va., Fayetteville—Fayette Co. Highway Dept. had plans prepared building two 25 ft. spans over Laurel Creek and two 60 ft. spans over Paint Creek. About $15,000. J. K. McGrath, Fayetteville, engr.

N. C., Williamston—State Highway Comm., Raleigh, plans to build 3000 ft. concrete bridge over Roanoke River, here. About $350,000. W. S. Fallis, c/o State Highway Dept., Raleigh, engr.

Ill., Carlinville—O. B. Conlee, Macoupin Co. supt. highways, soon lets contract building Armor Bridge, 60 ft. span, 16 ft. roadway, involving 214 cu.yd. concrete, 30,790 lb. reinforcing steel, cost $6900, Corbin Bridge, 30 ft. span, 18 ft. roadway, 97 cu. yd. concrete, 11,920 lb. reinforcing steel, $3460, Sanders Bridge, 50 ft. span, 16 ft roadway, 186 cu.yd. concrete, 23,870 lb. reinforcing steel, $5800, Sauerwine Bridge, 6 ft. span, 25 cu.yd. concrete, 3245 lb. reinforcing steel, $679, all in Polk Twp.; Loveless Culvert, 4 ft. span, 21 cu.yd. concrete, 3610 lb. reinforcing steel, South Otter Twp., $680; Edminston Bridge, 8 ft. span, 26 cu.yd. concrete, 2650 lb. reinforcing steel, $590, Goshen No. 1 Bridge, 10 ft. span, 42 cu.yd. concrete, 2840 lb. reinforcing steel, $1070, Goshen No. 2 Bridge, 24 ft. span, 24 cu.yd. concrete, 1830 lb. reinforcing steel, $600, Haven Bridge, 8 ft. span, 73 cu.yd. concrete, 6540 lb. reinforcing steel, $2050, all in Barr Twp.; Cline Bridge, 6 ft. span, 43 cu.yd. concrete, 3670 lb. reinforcing steel, Scottsville Twp., $990; Chiles Bridge, 10 ft. span, 43 cu.yd. concrete, 3020 lb. reinforcing steel, $1175, Roades Bridge, 10 ft span, 3210 lb. reinforcing steel, Bird Twp., $1145; Kahl Bridge, 24 ft. span, 106 cu.yd. concrete, 9520 lb. reinforcing steel, Shipman Twp., $2830. Noted June 5.

Tex., Texarkana—City plans to build steel bridge across Sulphur River at Blackman's Point. About $15,000.

Oregon—State Highway Comm., Portland rejected bids received Aug. 6 building bridges over Birdseye Creek near Rogue River and over Miller's Gulch on Pacific Highway, Jackson Co., involving 30,000 lb. reinforcing steel, 200 cu.yd. Class "A" concrete, 450 lin.ft. wooden piling, 240 lin.ft. concrete hand rail. H. Nunn, Salem, state highway engr. Noted Aug. 7.

BIDS DESIRED

N. Y., Schenectady—Until Sept. 12, by E. S. Walsh, supt. pub. wks., Capitol, Albany, building abutments and approaches on Schenectady-Scotia bridge, rein.-con., extending from junction of State St. and Washington Ave. across Barge Canal Terminal channel, Van Slyck Island, Barge Canal main channel, Hog Island and the Scotia channel, to point about 300 ft. north of junction of Schonowee and Mohawk Aves., Scotia Village; advertised in this issue.

N. Y., Watertown—Until Aug. 29, by Bd. Pub. Wks., building 2 span, rein.-con and steel bridge, 200 ft. long, 39 ft. wide, over Black River on Factory St. About $50,000. Concrete Steel Eng. Co., 21 Park Row, New York City, engrs.; advertised in this issue.

Bridges (Continued)

Pa., Dubois—Until Sept. 3, by Comrs. Clearfield Co., building various bridges, here. About $10,000.

Pa., Ebensburg—See "Streets and Roads."

Pa., Washington — Until Aug. 25, by Comrs. Washington Co., for repairs and replacements to inter-county bridge over Monongahela River connecting Donora and Webster. J. S. Sell, controller, Westmoreland Co. T. J. Underwood, controller Washington Co.

W. Va., Kingwood—Until Aug. 26, by Preston Co., building 6 bridges, 1 double 26 ft. span, 2 single 26 ft. spans, 2 single 24 ft. spans and one 16 ft. span, all concrete. E. H. Wilhelm, Kingwood, engr.

W. Va., Wayne—Until Sept. 16, by Wayne Co. building substructure of 150 ft. span, concrete bridge over Twelve Pole Creek. About $10,000. H. Levering, co. engr.

S. C., Beaufort—Until Aug. 29, (change of date) by Comrs. Beaufort Co., setting 7 rein.-con. piers under 400 ft. steel girder bridge over Whale Branch, tearing out wooden piling and concreting steel caisson turn pier, involving 550 cu.yd. rein.-con. and 3.9 tons reinforcing steel. About $14,000. J. R. Pennell, c/o State Highway Dept., Columbia, engr. Noted July 10.

S. C., Chester—Until Sept. 2, by Comrs. Chester Co., building 5 rein.-con. bridges, two 20 ft. clear spans, one 30 ft. clear span, one 60 ft. clear span and one 350 ft. long, all 16 ft. roadway. About $40,000.

Ga., Lagrange—Until Aug. 26, by Bd. Comrs. Rds. & Revenues of Troup Co., building bridge about 3 mi. from Hogansville, involving 111 cu.yd. Class A and 55 cu.yd. Class B concrete, 152 cu.yd. wet and dry excav., 28,000 lb. steel reinforcing, 25 cu.yd. riprap; also bridge about 1 mi. from Louise, 147 cu.yd. Class A and 6 cu.yd. Class B concrete, 150 cu.yd. wet and dry excav., 36,070 lb. reinforcing steel, 25 cu.yd. riprap. W. T. Tuggle, clk.

Ga., Monroe—Until Aug. 27, by Bd. Comrs. Rds. & Revenues of Walton Co., building 48 ft. bridge 1½ mi. from here, involving 65 cu.yd. Class A and 52 cu.yd. Class B concrete, 98 cu.yd. wet and dry excav., 9395 lb. reinforcing steel, also 190 ft. bridge about 4 mi. from here, involving 252 cu.yd. Class A and 155 cu.yd. Class B concrete, 233 cu.yd. wet and dry excav. and 50,322 lb. reinforcing steel. T. C. Aycock, chn.

Minn., Blue Earth—Until Sept. 2, by J. L. Herring, aud. Faribault Co., building Bridge No. 3130, 60 ft. deck girder, 22 ft. roadway, No. 3131, two 30 ft. spans, 20 ft. roadway, No. 3132, 18 ft. slab span 24 ft. roadway, cost $11,500; No. 2322-C, 24 ft. slab span, No. 2687-A, 24 ft. slab span, No. 2733-B, 16 ft. slab span, one 24 ft. slab span, and two box culverts, $10,500. R. J. Short, Blue Earth, engr.

Minn., Slayton—E. V. O'Brien, aud. Murray Co. receiving bids building Bridge No. 3040, 30 ft. rein.-con., rein.-con. abutments, No. 3058, 35 ft. rein.-con., 20 ft. roadway, No. 3155, 23 ft. girder and No. 3157, 16 ft. slab span, both 12 ft. abutments. About $12,000. P. L. Munder, Slayton, engr.

Mo., Charleston—Until Aug. 26, by Mississippi Co. Court, building steel bridges on Section A, Poplar Bluff-Cairo State Rd. About $12,095.

Utah, Salt Lake City—Until Aug. 26, by City Comn., building 68 ft. (exclusive of approaches) rein.-con. arch bridge, 20 ft. wide, cost $20,000; also 48 ft. (exclusive of approaches) rein.-con. arch bridge, 20 ft. wide, on 4th South St., $16,000, both over Jordan River. S. Q. Cannon, city engr.

Cal., Three Rivers—Until Sept. 3, by Bd. Supervs., Tulare Co., Visalia, building rein.-con. bridge over South Fork of Kaweah River, near here, involving 228 cu.yd. rein.-con.

PRICES AND CONTRACTS AWARDED

(★Indicates award of contract)

N. Y., Lyons—E. S. Walsh, supt. pub. wks., Capitol, Albany, received bids building substructure, superstructure and approaches of highway bridge over Barge Canal below Lock No. 28 A, here, from Lupfer & Remick, Ellicott Sq., Buffalo, $44,105; Scott Bros., Arlington Blk., Rome, $44,987; Lathrop, Shea & Henwood Co., Ellicott Sq., Buffalo, $45,788. Noted July 17 under "Excavation and Dredging, Albany."

N. Y., Rochester—E. S. Walsh, state supt. pub. wks., Capitol, Albany, received only bid completing 2 concrete bridges over Red Creek, Genesse Valley Park, here, Barge Canal Contr. No. 144-A, from Brown & Low Co. and Law Bros., Foster Ave., Schenectady, $69,286. Noted July 17 under "Excavation and Dredging, Albany."

★N. J., Hoboken—Delaware, Lackawanna & Western R.R., 90 West St., New York City, let contract building viaduct over tracks on Newark Turnpike, here, to Curtis Brothers, Longshore Ave., Phila. About $160,000.

★N. J., Plainfield—Comrs. Union Co. (Elizabeth) let contract building bridge on Sanford Ave., here, to A. E. Smith, 220 Park Ave., $14,745.

★Pa., Harrisburg—State Highway Dept. let contract building triple span highway bridge with 3 deck trusses, each 135 ft. 6 in. centre to centre, to Wyoming Co., Nicholson Twp. and Boro., to Anthracite Bridge Co., Mears Bldg., Scranton, $56,536; through truss highway bridge, 138 ft. centre to centre, York Co., York Twp., to C. A. and F. M. Wagman, Dallaston, $28,938. Noted Aug. 7.

★W. Va., Morgantown—Monongalia Co. let contracts to B. M. Chaplin Co., Morgantown, building Scotts Run Bridge, cost $8739, and Robinsons Run Bridge, $6485; both concrete girder type.

★W. Va., Welch—Comrs. McDowell Co. let contract building 3 rein.-con. bridges, 1 at Iaeger, and 2 near Roderfield, to Crons-Thomas Eng. Contg. Co., Huntington. About $50,000.

★W. Va., Welch—McDowell Co. let contracts to Corns-Thomas Eng. Co., 1st Natl. Bank Bldg., Huntington, building 150 ft. steel truss bridge, 16 ft. wide, near Roderfield, involving 1000 cu.yd. concrete and 660 cu.yd. earth approach and fill. State Project No. 1105, cost $22,800; furnishing substructure and building 125 ft. steel truss bridge over Negro Branch Creek, also painting, laying concrete floor and repairing abutments of an old railway bridge, $18,139. Noted July 24.

★Illinois—State Highway Comn., Springfield, let contracts to M & P Contract Co., building North River Bridge, Ganeer and Momence Twps., $28,789; Nichols Bridge, Limestone Twp., $1270; to J. A. Devars, Benjamin and Switcher Bridges, Aroma Twp., $2090; to H. Halpin, Cote Bridge, St. Anne Twp., $1120. All in Kankakee Co.

★Wisconsin—State Bridge Comn., Madison, let contract building Brown Deer Bridge, Milwaukee Co., Wisconsin Project No. 95, to Michie Constr. Co., 82 Wisconsin St., Milwaukee. Work involves 10,692 cu.-yd. earth excav., $0.80 per cu.yd., 32 cu.yd. concrete for culverts, $22.50, 149 cu.yd. concrete for bridges, $19,920 sq.yd. concrete surfacing, $2.24, etc. Total cost $50,746.

★Tex., Orange—See "Streets and Roads."

★Ariz., Phoenix—T. Maddock, state engr., let contract building 120 ft. rein.-con. arch bridge over Queen Creek, on Mesa-Superior Highway, to Topeka Bridge & Iron Co., Stormont Bldg., Topeka, Kan., $14,000. Noted July 10.

★Oregon—State Highway Comn., Portland, let contracts to F. Jordan, Ashland, building 3 rein.-con. bridges over Neil Creek on Pacific Highway, Jackson Co., involving 27,000 lb. reinforcing steel, 375 cu.yd. Class "A" concrete, 600 lin.-ft. wooden piling, 200 lin.ft. concrete hand rail, cost $14,079; to J. F. Clarkson, Vancouver St., Portland, one 108 ft. one 90 ft. and one 70 ft. wood truss span bridges on John Day Highway, near Spray, Wheeler Co., 75 cu.yd. Class "B" concrete, 230 lin.ft. trestle approach, $17,885. Noted Aug. 7.

Oregon—State Highway Comn., Portland, received bids Aug. 6, building bridge over Molalla River on Canby-Aurora Sect. of Pacific Highway near Canby, Clackamas Co., consisting of three 80 ft. steel truss spans, two 30 ft. concrete spans, 266 lin.ft. timber trestle, 624 lin.ft. concrete hand rail, 266 lin.ft. timber superstructure, 1800 lin.ft. trestle piling, 2100 lin.ft. foundation piling, 167,000 lb. structural steel, 45,000 lb. reinforcing steel, 325 cu.yd. Class A concrete, 425 cu.yd. Class B concrete, from R. Wakefield, Worcester Bldg., Portland, $49,518; Portland Bridge Co., Yeon Bldg., Portland, $47,794; Parker & Banfield, Columbia Bldg., Portland, $50,67[illegible] and 3 bridges on Holmes-Gap [illegible] of West Side Highway, Polk [illegible] Counties, 50,000 lb. reinforcing [illegible] bridges, 400 cu.yd. Class A [illegible] lin.ft. concrete hand rail, 600 [illegible] piling, from A. D. Kern, Portland, [illegible] Noted Aug. 7.

Cal., San Diego—Bd. Supervs., San Diego Co. received only bid building [illegible] con. girder at La Costa, from De Wall Bros., 207 Granger Bldg., $27,854. Noted July 31.

★Cal., San Diego—Bd. Supervs., San Diego Co. let contract building [illegible] ft. rein.-con. girder bridge near Cardiff, to Johnston & Gaston, San Diego, $26,899. Noted Aug. 7.

Reinforced Concrete

PROPOSED WORK

Pa., Pittsburgh—See "Industrial Works."
Cal., Los Angeles—See "Buildings."

BIDS DESIRED

Ga., Lagrange—See "Bridges."
Ga., Monroe—See "Bridges."

PRICES AND CONTRACTS AWARDED

(★Indicates award of contract)

★Ariz., Phoenix—See "Bridges."
★Cal., San Diego—See "Bridges."
Cal., San Diego—See "Bridges."
★Ont., Ottawa—See "Miscellaneous."

Streets and Roads

PROPOSED WORK

Mass., Pittsfield—City soon receives bids building new concrete sidewalks on Capitol Terrace, Onota and High Sts. About $[illegible] 000.

N. Y., Rome—Bd. Estimate and Apportionment plans to issue $75,000 bonds to resurface various streets. J. L. Plumb, city engr.

N. J., Elizabeth—Bd. Freeholders Union Co. plan to improve Mountain and Hillwood Aves. About $60,000. J. Bauer, co. engr.

N. J., Jersey City—City soon lets contract repairing asphalt pavement on various treets. Cost to exceed $10,000. C. Van Keuren, city engr.

N. J., Jersey City—City plans to improve Waldo Ave. between Newark Ave. and Pennsylvania R.R. tracks, granite block. About $10,000. C. Van Keuren, city engr.

N. J., North Bergen—Town Council rescinded contract let to J. Devlin, 117 25th St., Guttenberg, repairing 34th and 35th Sts. About $100,000. Work will be readvertised. Noted Aug. 7.

N. J., North Bergen—Town soon lets contract repaving Courtland St., bituminous concrete. About $10,000. Noted Aug. 7.

N. J., Trenton—City plans to repair West Hanover, North Warren, Bellevue, Spring, Lafayette, Liberty, Quarry, Magowan, North Clinton, Cass, Ewing, Carrolls and Clinton Sts., brick and asphalt. A. Scott, city engr.

Pennsylvania — State Highway Dept., Harrisburg, received no bids building 12,355 ft. 1 course rein.-con. or bituminous surface road on concrete foundation, Route No. 57, Rush Twp., Center Co.; 3812 ft. 1 course rein.-con. road, Blairsville Boro., Indiana Co.

Pa., Braddock—Boro. rejected bids grading, paving, curbing and recurbing Braddock Ave., involving 2500 sq.yd. vitr. brick on 6 in. concrete base, 6000 lin.ft. stone curbing and 5000 cu.yd. earth excav. Work will be readvertised soon. Harrop & Hopkins, Home Trust Bldg., Pittsburgh, engrs. Noted May 22.

Pa., East Pittsburgh—City election Aug. 29 to vote on $105,000 bonds to improve streets.

West Virginia—State Highway Comm., Charleston, soon receives bids grading and draining 7 mi Franklin-Petersburg Rd. 22 ft. wide. About $48,000. Engineer not selected. Address E. Smith, Keyser, div. engr., West Virginia State Rd. Comm.

Streets and Roads (Continued)

W. Va., Hinton—Comrs. Summers Co. plan to grade 6 mi. Tallery Mountain Rd. About $38,000.

W. Va., Huntington—City soon lets contract for grading, curbing, guttering and paving with brick on gravel base, 1 mi. Locust, North Lincoln, Doulton, 11th, 19th, and 3rd Sts. About $50,000. A. B. Maupin, city engr.

W. Va., Lewisburg—Greenbrier Co. soon receives bids grading, 26 ft. wide, and paving with bituminous macadam, 9 ft. wide, on 20 mi. roads in Meadow Bluff Dist. About $180,000. F. K. Rader, Lewisburg, engr.

W. Va., Parsons—Comrs. Tucker Co. rejected bids received Aug. 6, grading 9 mi. Davis Dist.-Preston County Rd., 20 ft. wide, involving 38,800 cu.yd. excav. and 17,700 sq.yd. concrete, etc. About $75,000. J. J. Taney, Thomas, engr. Noted July 31.

W. Va., Petersburg—Comrs. Grant Co. plan to build 9 mi. Franklin-Petersburg-Patterson Creek Pike, surfacing 16 ft wide, grading 26 ft. wide, involving 45,000 cu.yd. excav., and 13,000 sq.yd. gravel surfacing, etc. About $47,200. Federal Government has been requested to appropriate $23,640 toward cost. A. C. Hoffman, Petersburg, engr.

W. Va., Princeton — Comrs. Mercer Co. soon receive bids resurfacing with macadam and changing from waterbound to bituminous following roads: 7.33 mi. from Carr Schoolhouse to Sand Lick; 9.04 mi. Bramwell-Rock Rd.; 9 mi. Bluefield-Bramwell Rd., 2.3 mi. from Virginia state line to Coopers Rd; 6.36 mi. Giatto-Rock Rd. K. E. Barton, Princeton, engr.

W. Va., Summersville—Comrs. Nicholas Co., had plans prepared grading and draining 2 mi. Belva-Summersville Rd., 20 ft. wide (steam shovel job) About $29,000. R. Williamson, Jr., Richmond, engr.

W. Va., Sutton—Braxton Co. having plans prepared building 9.6 mi. Weston and Gauley Bridge Turnpike, 18 ft. wide, involving 70,000 cu.yd. excav., etc. About $80,000. Federal Government has been requested to appropriate $39,937 toward cost.

North Carolina—State Highway Comn., Raleigh, plans to hard surface 6 mi. Winston-High Point Rd., cost $180,000; also 6 mi. Asheboro Rd. and road to Lexington, $180,000. W. S. Fallis, c/o State Highway Dept., Raleigh, engr.

N. C., Washington—Comrs. Beaufort Co. rejected bids received Aug. 12, paving 50 mi. highway. About $1,000,000. G. C. White, Durham, engr. Noted July 17.

Ga., Augusta—Streets and Drains Com. of City Council soon lets contract building 6000 sq.yd. pavement on 12th St. and Savannah Rd. from Millidgeville Rd. to connect with county pavement on Savannah Rd., and 10,000 sq.yd. pavement on 9th St. from Fenwick to Twiggs Sts. Bids will be accepted on asphaltic concrete on macadam base, asphaltic concrete on 4 in. concrete foundation, sheet asphalt on 4 in. concrete foundation, brick with monolithic or semi-monolithic construction, plain 6 in. concrete, wood block, etc. W. H. Wise, city engr. and pub. wks. comr.

Fla., Live Oak—Suwanee Co. election Sept. 16, to vote on $700,000 bonds to hard surface roads. Federal Government will appropriate like amount.

Ala., Andalusia—City soon lets contract for 50,000 sq.yd. concrete, brick, asphalt, wood block, bitulithic or other pavement, 1000 lin.ft. 6 x 18 in. concrete curb, 510 granite headers, 1400 ft. 4 in. terra cotta pipe for wiring, 26,000 lin.ft. 15 in. storm sewer pipe, 4600 lin.ft. 4 and 6 in. sanitary sewer connections, catchbasins, inlets, etc. M. D. Pace, city engr.

Miss., Senatobia—Tate Co. will let contract about Sept. 1, building 64 mi. roads involving 500,000 cu.yd. earth work. C. W. Johnson, 301 Wagner St., Water Valley, engr.

Miss., Vicksburg—Warren Co. election Sept. 2, to vote on $500,100 bonds to build roads.

Louisiana—State Highway Dept., New Orleans, soon receives bids building 40 mi. road in East Carroll Parish, running from Tallulah on Madison Parish Line to Arkansas State Line, 30 ft. wide. About $400,000. D. Bine, 736 Maison Blanche, state highway engr.

O., Dayton—Montgomery Co. plans to pave 3.5 mi. Germantown Pike from Germantown northeast, 20 ft. wide, brick on concrete foundation. About $168,000. S. Sharts, co. surv.

O., Lisbon—Columbiana Co. received no bids Aug. 8, grading, draining and paving 2 mi. Salineville-Lisbon Rd., 14 ft. wide involving 16,455 sq.yd. waterbound macadam. About $43,620.

Mich., Adrian—G. P. Love, city clk., received no bids laying bituminous macadam pavement 30 ft. wide, curbing and guttering, from north line Seeley St. to north line Albert St., also from north line Albert St. to city line on north. Noted July 10.

Mich., Detroit—Dept. Pub. Wks. soon receives bids paving Helen Ave. from Strong Ave. to Miller Ave., 26 ft. wide, cost $23,760; Gladstone Ave. from LaSalle Blvd. to Linwood Ave., 25 ft. wide, $8740; Marquette Ave. from 16th St. to Lawton Ave., 26 ft. wide, $23,600; Eastlawn Ave. from Kercheval Ave. to Charlevoix Ave., 26 ft. wide, $36,480; all asphaltic concrete on 6 in. concrete base with Amherst curbstone or Medina stone set in concrete; also alley between East Grand Blvd., Field, Theodore and Frederick Aves., 18 ft. wide, $3380, and alley between Hamilton Blvd., 3rd St., Blaine and Gladstone Aves., 18 ft. wide. $5800, 1 course concrete. C. W. Hubbell, city engr.

Mich., Detroit—Dept. Pub. Wks. soon lets contract paving following boulevards and alleys with 1 course concrete: Epworth Blvd. from Tireman Ave. to Dailey Ave., 46 ft. wide; Epworth Blvd. from Warren Ave., to Tireman Ave., 46 ft. wide; Alley No. 1058, between Hamilton Blvd., 3rd. St., Glynn Court and Calvert Ave., 19 ft. wide; No. 1060, between Woodward Ave., John R. St., Hancock and Warren Aves., 20 ft. wide; No. 1061, between East Grand Blvd., Field, Forest and Gratiot Ave., 20 ft. wide; No. 1062, between Dexter Blvd., Northwestern and Lathrop Aves., 18 ft. wide; No. 1063, between 18th, 17th, Magnolia and Myrtle Sts., 20 ft. wide; No. 1064, between Beaubien, St. Antoine, Palmer and Hedrie Sts., 20 ft. wide; No. 1065, between Melrose, Cameron, Custer Aves., East Grand Blvd., 20 ft. wide; No. 1066, between Avery, Lysander, Commonwealth and Forest Aves., 20 ft. wide, and No. 1067, between John R., Brush, Harmon and Rosedale Sts., 20 ft. wide, involving 13,732 cu. yd. excav., 12,903 lin.ft. curbstone, 21,430 sq.yd. sheet asphalt, 1293 sq.yd. granite, 358 cu.yd. concrete, 10,680 sq.yd. 1 course concrete, etc. C. W. Hubbell, city engr. Noted July 31.

Mich., Milford—Town having plans prepared grading and paving with 1 course concrete, highway at south village limits, also Mill, Huron, Summit, Main Sts. and Highland Rd. to village limits, involving 30,000 sq.yd. concrete. About $120,000.

Mich., River Rouge—R. J. Peters, village clk., received no bids grading and paving with 1 course rein.-con. 6 in. thick with armor plate expansion joints, Henry and Great Lakes Aves., Maple and Pine Sts. About $100,000. Work will be readvertised. Noted July 31.

Illinois—Dept. Pub. Wks. & Bldg., Springfield, soon lets contract improving roads in following counties: White Co., 4484 ft. Sect. D, Route 5, 10 ft. wide, gravel, cost $6690;

Iroquois Co., 11,700 ft. Sect. E, Route 7, 10 ft. wide, concrete, $28,866;

Macon Co., 38,795 ft. Sect. E, Route 5, 15 ft. wide, oiled earth, $30,788;

Lee Co., 2430 ft. Sect. F, Route 5, 16 ft. wide, $9184 and 2675 ft. Sect. G, Route 5-A, 10 ft. wide, concrete, $10,072;

Morgan Co., 3259 ft. Sect. D, Route, 1, 16 and 18 ft. wide, concrete, $12,878;

Ford Co., 3100 ft. Sect. D, Route 1, 10 ft. wide, brick, $14,971;

Jo. Daviess Co., 7675 ft. Sect. G, Route 2 26 ft. wide, earth., $6562;

Richland Co., 12 and 16 ft. span bridge, Sect. G, Route, 4, $5060 state, to furnish cement. C. Older, ch. highway engr.

Mo., Clayton—St. Louis Co. issued $3,000,000 bonds to grade, pave and improve graveled, macadamized and rock roads, bridges and culverts. W. Elbring, co. engr.

Mo., Clayton (St. Louis P. O.)—Memorial Park Assn., Central Nat'l Bank Bldg., soon receives bids extending Lucas and Hunt Rds. to gates of Memorial Park Cemetery, 32 ft. wide. About $16,000.

Mo., Joplin—City election Sept. 16, to vote on $500,000 bonds to hard surface streets. Address J. F. Wise, secy.

Mo., Mexico—Audrain Co. election soon to vote on $1,000,000 bonds to hard surface roads.

Mo., Troy—J. S. Finley, secy. Lincoln Co., soon receives bids building 6½ mi. road near Elsberry. G. Crank, Elsberry, engr.

Tex., Amarillo—City plans election to vote on $150,000 bonds to pave streets.

Tex., Bryan—Brazos Co. soon lets contract surfacing and building rein.-con drainage structures on Highway No. 2, Rd Dist. No. 2, Federal Aid Project No. 97, 15 ft. wide, 8.73 mi. gravel surfaced, 1.6 mi concrete surfaced, involving 14,666 sq.yd concrete pavement, 42,619 cu.yd. unclassified earth excav., 41,762 lb. reinforcing steel, and 396 cu.yd. Class A and 148 cu.yd Class B concrete, etc. About $99,996. H. Boyett, Bryan, engr. Noted Aug. 7.

Tex., De Leon — Comanche Co. voted $750,000 bonds to improve roads.

Tex., Gonzales—Gonzales Co. voted $104,000 bonds to improve lateral roads and highways Nos. 3, 21 and 29. Wilder & O'Neal, Houston, engrs.

Tex., Huntsville—Kittrell Rd. Dist., Walker Co. plans election Aug. 23, to vote on $40,000 bonds to build roads.

Tex., Kountze—Hardin Co. Dist. No. 3, election on Aug. 30, to vote on $310,000 bonds to build roads. Engineer not selected. J. M. Combs, co. judge.

Tex., Rusk—Cherokee Co., Rd. Dist. No. 3, voted $350,000 bonds to build roads. Hess & Skinner, Southwestern Life Bldg., Dallas, engrs.

Tex., Wharton—Wharton Co. voted $200,000 bonds to improve roads.

Tex., Wichita Falls—Wichita Co. plans to build and drain 8.814 mi. concrete road from point 7 mi. north of here, southeast to Clay Co. line, 16 ft. wide, known as State Highway No. 2, cost $40,000 per mi.; 4.68 mi. Highway No. 22 from here to Archer Co. line, 16 ft. wide, $40,000 per mi. J. M. Isbell, Wichita Falls, engr

New Mexico—State Highway Comn., Santa Fe, plans to build 10 mi. Federal Aid Project No. 19, from Myndus to Florida Mts., 20 ft. wide, cost $65,000; 8 mi. Federal Aid Project No. 21, from Rinconada to Cieniguilla, $96,000.

Wash., Prosser—City plans to pave various streets involving 37,796 sq.yd. concrete or bitulithic. About $115,000. E. H. Stradling, Prosser, Engr.

Wash., Toppenish—City plans to pave 15,000 sq.yd. various streets, bitulithic. About $40,000. M. Bartlett, Toppenish, engr.

Wash., Waterville—Douglas Co. plans to gravel surface 13 mi. Mansfield-Leahy Rd., 20 ft. wide. About $75,000. R. L. Richards, Waterville, engr.

Wash., Yakima—Cowiche, Macehs and Tieton Dists. plan to build 20 mi. hard surface and gravel roads. About $140,000. Work will be done under supervision of Yakima Co. W. C. Marion, co. engr.

Oregon—State Highway Comn., Portland, rejected bids received Aug. 5 paving 8 mi. Corvallis-South Sect. West Side Highway, Benton Co. (concrete paver or railroad asphalt mixed furnished by state). H. Nunn, Salem, state highway engr. Noted July 31.

Oregon—State Highway Comn., Portland, received no bids Aug 5, paving 6.7 mi. Forest Grove-McMinnville Rd., Washington Co., involving 15,000 cu.yd. macadam and 3 mi. Walker-Cottage Grove Sect. Pacific Highway, Lane Co., 6300 cu.yd. macadam. Noted July 31.

Oregon—State Highway Comn., Portland, rejected bids received Aug. 6, grading and paving 14.8 mi. Seaside-Astoria Sect. Columbia River Highway, Clatsop Co. H. Nunn, Salem, state highway engr. Noted July 31.

Ore., Portland—City plans to eliminate all grade crossings of Oregon-Washington R.R. & Navigation Co., by grading and paving Sandy Blvd., East 60th, East 53rd, East 47th, Halsey, East 82nd and East 74th Sts., cost $575,481; also improve Ellis Ave. from 2nd to Milwaukee Sts., $2734; Oswego St. from Smith Ave. to Bank St., $6463; Harrison St. from Front to Water Sts., $2639. O. Laurgaard, city engr.

Streets and Roads (Continued)

Cal., Blythe—City election Aug. 26 to vote on $95,350 bonds to grade and gravel surface 15 mi. road, 22 ft. wide, in 8 districts. Address H. H. Favour, Blythe, chn. good rd. com.

Cal., Fresno—Bd. Supervs. Fresno Co receives bids in September or October paving 14 mi. road on White's Bridge Ave. to within 1 mi. Kerman; 1½ mi. Belmont Ave., 5 mi. Blackstone Ave.; 12 mi. Elm Ave. to within 3 mi. Caruthers; 8 mi. Ventura Ave. to within 2 mi. Sanger; 5 mi. Shaw Ave. to within 1 mi. Clovis; 6 mi. Adams Ave. This is first section of roads to be paved under $4,800,000 bond issue recently voted. D. M. Barnwell, clk.

Cal., Martinez—Bd. Supervs. Contra Costa Co. receives bids in September paving 3 mi. concrete road near Knightsen.

Cal., San Diego—City Council had preliminary estimates made improving Granada Ave. from Upas St. to University Ave. Plans include 143,412 sq.yd. 2 in. asphalt on 5 in. concrete base, 2816 lin.ft. concrete curbing, 14,550 sq.ft. concrete sidewalk and 2748 lin.ft. c.i. water mains, etc. E. A. Rhodes, city engr.

Cal., San Luis Obispo—San Luis Obispo Co. election Sept. 23 to vote on $1,500,000 bonds to grade and pave roads with concrete and build bridges and culverts.

Cal., Santa Ana—City plans to pave Main St., involving 431,000 sq.ft. 6 in. concrete base with wire mesh and 2 in. asphaltic surface, @ $0.223 per sq.ft., total, $91,373, or $37,810 less if Pacific Electric Ry., Pacific Electric Bldg., Los Angeles, retains tracks now in street; resurfacing E St., $13,447. Address E. L. Vegeley, city clk.

Ont., Hamilton—Dept. Highways, Toronto, soon receives bids building 40 mi. Provincial Highway from here to Niagara Falls, 20 ft. wide. About $400,000. G. Hogarth, Parliament Bldgs., Toronto, engr.

B. C., Chilliwacke—City soon lets contract hard surfacing various streets with 2 in. Standard Bitulithic, 2 in. gravel bitulithic or 2 in. asphaltic concrete. About $30,000. J. W. B. Blackman, New Westminster, engr.

BIDS DESIRED

Maine—Until Sept. 3, by State Highway Comn., Augusta, grading, draining and paving 9.33 mi. road, Vassalboro Twp. and .21 mi., Brunswick Twp., bituminous macadam. P. D. Sargent, ch. engr.

New York—Until Sept. 9, by State Highway Comn., Capitol, Albany, improving 4.29 mi. highway, Chautauqua Co., also completing 4.94 mi. Chautauqua Co., 7.14 mi. and 7.77 mi. Columbia Co., 6.18 mi. Chenango Co., 5.84 mi., 3.39 mi. and 4.31 mi. Delaware Co., 9.14 mi., 3.18 mi., 0.59 mi., 1.06 mi. and 3.02 mi., Erie Co., 5.13 mi. and 2.9 mi. Fulton Co., 1.97 mi. Hamilton Co., 6 18 mi. and 4.89 mi. Madison Co., 8.64 mi. Ontario Co., 1.17 mi. Orange Co., 12.66 mi. Otsego Co., 5.5 mi. Tioga Co., 3.38 mi. and 5.86 mi. Tompkins Co., 3.17 mi. Ulster Co., 6.98 mi. Washington Co., 9.63 mi. Yates Co. F. S. Greene, comr.; advertised in this issue.

N. Y., Brooklyn—Until Aug. 28, by Park Bd., Municipal Bldg., New York City, furnishing material and labor for improving Park Circle at Prospect Park and Ocean Parkway and East Drive, Prospect Park between main entrance and Ocean Ave. entrance. F. D. Gallatin, pres.

N. Y., Long Island City—Until Aug. 27, by M. E. Connolly, pres. Queens Boro., regulating and repaving with sheet asphalt on broken stone macadam base, Hillside Ave. from Grand St. to Rocky Hill Rd., 4th Ward.

N. Y., New York—Until Aug. 25, by F. L. Dowling, pres. Manhattan Boro., regulating and repaving with granite block on concrete base, intersection of Bway. and Fulton St., with sheet asphalt on concrete base, roadway of Bway. from Morris to Vesey Sts., 28th St. from Lexington to 5th Aves., 110th St. from 2nd to 5th Aves., Lenox Ave. from 116th to 124th Sts., Lexington Ave. from 53rd to 79th Sts., Lexington Ave. from 95th to 97th Sts., with wood block on concrete foundation, Lexington Ave. from 53rd to 59th Sts., from 69th to 72nd Sts., from 73rd to 75th Sts., with granite block on earth foundation, Lexington Ave. from 59th to 66th Sts., from 69th to 72nd Sts., from 73rd to 75th Sts., on concrete foundation, Lexington Ave. from 75th to 79th Sts., with sheet asphalt on concrete foundation, Lexington Ave. from point 25 ft. more or less south of southerly boundary line of 79th St. to northerly boundary line of 79th St.

N. Y., New York—Until Aug. 28, by H. Bruckner, pres. Bronx Boro., paving with bituminous concrete on 5 in. concrete foundation, roadway of East 239th St. from Martha to Katonah Aves., on cement concrete foundation, East 170th St. from Jerome to Walton Aves., regulating, grading, setting curb, laying sidewalks and crosswalks, building inlets, receiving basins, drains, culverts, approaches and guard rails, Blackrock Ave. from Havemeyer to Pugsley Aves.

N. Y., New York—Until Aug. 28, by Park Bd., Municipal Bldg., for labor and materials required to repave where directed the cement walks of small parks in Manhattan Boro. F. D. Gallatin, pres.

N. Y., Rochester—Until Sept. 4, by F. W. Ward, secy. state bd. of armory comrs., 158 State St., Albany, for finished grading, walks and drives around Armory, here. L. F. Pilcher, Albany, state archt.; advertised in this issue.

N. J., Jersey City—Until Sept. 9, by Bd. Freeholders, Hudson Co., building Belleville Turnpike, macadam foundation. About $25,000. T. J. Wasser, co. engr.

Pa., Ebensburg—Until Aug. 29, by Supervs. Summerhill Twp., c/o H. T. Jones, controller, Cambria Co., rebuilding 1.37 mi. Beaverdale Rd., Summerhill Twp., 20-25 ft. wide, brick and concrete; also building concrete bridge over Laurel River. About $75,000. Owen & Plummer, Otto Bldg., Johnstown, engrs.

Delaware—Until Sept. 10, by State Highway Dept., Dover, building 6.70 mi. road from Frederica to Milford, Contr. No. 18; 3.75 mi. road from Harrington to Felton, Contr. No. 20; 0.15 mi. road from city line to 33rd St., Wilmington, Contr. No. 21; 0.65 mi. road from Market St. Bridge to city line, Wilmington, Contr. No. 22; all in New Castle and Kent Counties. C. M. Upham, ch. engr.; advertised in this issue.

Maryland—Until Sept. 2, by State Rds. Comn., 601 Garrett Bldg., paving 1 mi. Defense Highway from Camp Parole toward Chesterfield, Contr. AA-12, Federal Aid Project No. 28, and 2 mi. highway from Ingleside toward Barclay, Contr. Q-13, Federal Aid Project No. 37, Queen Anne's Co.; 1.90 mi. highway from end of concrete road south of Snow Hill to Girdletree, Contr. WO-19, Federal Aid Project No. 30, Worcester Co.; all concrete. F. H. Zouck, chn.; advertised in this issue.

W. Va., Berkeley Springs—Until Aug. 30, by Comrs. Morgan Co., building 2 mi. Berkeley Spring-Hancock Rd., surfacing 16 ft. wide, grading 24 ft. wide, involving 9000 cu.-yd. excav. and 14,000 sq.yd. cement concrete surfacing. About $42,000. C. A. Rathrock, Berkeley Springs, engr. Noted Aug. 7.

W. Va., Keyser—Until Sept. 9, by Comrs. Mineral Co., improving 7.66 mi. road in Elk Dist. A. A. Jordan, co. clk.; advertised in this issue.

W. Va., Princeton—Until Aug. 27, by Comrs. Mercer Co., rebuilding 1½ mi. Princeton-Athens Rd., 9 ft. wide, waterbound macadam, grading and draining 3 mi. road from Simmons to McDowell county line, 18 ft. wide, cost $30,000; paving 6 mi. Princeton-Flattop Rd., 16 ft. wide, involving 28,000 cu.yd. excav. and 54,000 sq.yd. waterbound macadam, $80,600. Noted May 22.

North Carolina—Until Sept. 2, by State Highway Comn., Asheville, paving 7.8 mi. Black Mt.-Azalea Rd. Bids will be received on all types of pavement. W. S. Fallis, c/o State Highway Dept., Raleigh, engr.

North Carolina—Until Aug. 28, by State Highway Comn., Div. Office, Greensboro, hard surfacing 8 mi. roads in Alamance Co. About $240,000. W. S. Fallis, c/o State Highway Dept., Raleigh, engr.

S. C., Edgefield—Until Aug. 28, by Comrs. Edgefield Co. relocating, grading, draining and surfacing with topsoil 8.42 mi. Dixie Highway from here to Turkey Creek, 30 ft. wide. About $35,067. Former bids rejected. J. R. Pennell, c/o State Highway Dept., Columbia, engr. Noted Aug. 7.

Ga., Monroe—Until Sept. [illegible] by City Council, paving, curbing and [illegible] 24,000 sq.yd. Main St. About $75,[illegible] J. B. McCrary Co., 3rd N. B. Bldg., Atlanta, engrs.

Miss., Pascagoula—Until Sept. [illegible] by F. Taylor, clk., Jackson Co., building [illegible] road, involving 1 acre clearing [illegible] bing, 16,000 cu.yd. grading, 8541 [illegible] yd. concrete, 185 lin.ft. culvert pipe, 5000 [illegible] lbs. steel and 41,439 sq.yd. monolithic concrete; advertised in this issue.

Louisiana—Until Sept 2, by State Highway Dept., 736 Maison Blanche Bldg., New Orleans, paving 11.79 mi. Vinton-Orange Highway, 30 ft. wide, Calcasieu Parish. D. Buie, state highway engr.

Louisiana—Until Aug. 25, by State Highway Dept., 736 Maison Blanche Bldg., New Orleans, gravel surfacing and draining 19.8 mi. Alexandria-Oberlin Highway, 20 ft. wide and 14.5 mi. Alexandria-Melville Highway, Rapides Parish, 20 ft. wide. D. Buie, state highway engr.

La., Alexandria—Until Sept. 1, by city, paving 4th St., from Lee to Casson Sts., vitr. brick. Former bids rejected. I. W. Sylvester, city engr.

La., New Orleans—Until Sept. 16, by city, paving Common St. from Front to Magazine Sts., Natchez St. from Tchoupitoulas St. to Bank Place, Lafayette St. from Front to South Peters Sts., Girod St. from Water to South Peters Sts., St. Joseph St. from Front to Camp Sts., Howard Ave. from Front to South Peters Sts., Poeyfarre St. from Tchoupitoulas to Camp Sts., Calliope St. from Water to South Peters Sts., Galennie St. from Dock Bd. Roadway to Camp St., Erato St. from Water to Camp Sts., Front St. from Canal to St. Joseph Sts., South Peters St. from Canal to Thalia Sts., Tchoupitoulas St. from Canal to Race Sts., Annunciation St. from Howard Ave. to Thalia St., Constance St. from Julia to St. Joseph Sts. and from Howard Ave to Calliope St., Magazine St. from St. Joseph to Thalia Sts., St. Peter St. from Decatur to Rampart Sts., Orleans St. from Royal to Rampart Sts. and St. Ann St. from Decatur to Rampart Sts. Noted July 31 and Aug. 7. T. L. Willis, city engr.

La., New Orleans—Until Sept. 16, by city, paving, curbing, guttering, etc., following streets during 1920: Barracks St. from North Peters to Rampart Sts., Constance St. from St. Mary's St. to Louisiana Ave., Constance St. from Race to Orange Sts., 30 ft. wide, involving 1050 sq.yd. bituminous, wood block, or asphalt, on 6 in. concrete base, 180 cu.yd. concrete and 500 cu. yd. earth excav.; St. Mary St. from Magazine Pl. to Constance St., 30 ft. wide, 17,400 sq.yd. bituminous, wood block or asphalt on 6 in. concrete base, 2900 cu.yd. concrete and 7200 lin.ft. stone curbing; cost $150,000; 150 ft. Magazine St. from Richard to Felicity Sts., 40 ft. wide, bituminous, wood block or asphalt, on 6 in. concrete base; 330 ft. Richard St. from Constance to Magazine Sts., 30 ft. wide, bituminous, wood block or asphalt on 6 in. concrete base; Magazine Pl., from Felicity to St. Mary Sts., 30 ft. wide, 1050 sq.yd. bituminous, wood block or asphalt on 6 in. concrete base, 180 cu.yd. concrete and 500 cu.yd. earth excav. T. L. Willis, city engr.

La., New Orleans—Until Sept. 23, by city, paving Gravier and Poydras Sts. from Delta to Camp Sts., Magazine St. from Canal to St. Joseph Sts., Bank Pl. from Gravier to Natchez Sts., Birch St. from Carrollton Ave. to Eagle St., Clio St. from Magnolia to Claiborne Sts., Esther, Irma and Felicia Sts. from Bway. to Walnut St., Dufossat St. from Constance St. to Dock Bd. Roadway, Baronne St. from Howard Ave. to Melpomene St., Sycamore St. from Lowerline St. to Bway., Rampart St. from Calliope to Melpomene Sts., Girod St. from St. Charles to Rampart Sts., Notre Dame St. from Delta to Magazine Sts., and Julia St. from Dock Bd. Roadway to Magazine St. T. L. Willis, city engr. Noted July 31 and Aug. 7.

La., New Orleans—Until Sept. 23, by City Council, building sidewalks, curbing and paving roadway St. Bernard Ave. from Claiborne Ave. to Broad St., 8200 ft. long, 22 ft. wide. Work involves 190,000 sq.yd. wood block, asphalt, bitulithic or bituminous concrete on 6 in. concrete base, 11,700 sq.ft. vitr. brick gutter, 3170 cu.yd. concrete, 5000 sq.yd. artificial stone sidewalks and 8200 lin.ft. stone curbing. About $190,000. T. L. Willis, city engr.

Streets and Roads (Continued)

O., Xenia—Until Aug. 28, by K. Riddle, city mgr., paving 15,000 ft. various streets, 30 ft. wide, involving 60,000 sq.yd. asphalt, brick or concrete. About $30,000.

Michigan—Until Aug. 26, by State Highway Dept., Lansing, shaping, draining and surfacing 6.036 mi. State Trunk Line Rd. No. 25-2, 16 ft. wide, Luce and Chippewa Counties, involving 66,056 sq.yd. waterbound macadam and 47,208 cu.yd. earth excav.

Mich., Mt. Pleasant—Until Aug. 25, by I. Brownson, city clk., grading, shaping and paving 3900 ft. Main St., 24 ft. wide, involving 10,000 sq.yd. concrete. About $30,000.

Ia., Waterloo—Until Sept. 10, at office of auditor, Black Hawk Co., building 6 mi. graveled roads involving 18,000 cu.yd. earth, 15,000 cu.yd. gravel and 29,000 ft. tile; advertised in this issue. Noted June 5.

Mo., Charleston—Until Aug. 26, by Mississippi Co. grading, paving, building culverts and drains on 15.3 mi. state road, from Poplar Bluff to Cairo (Sect. A), 2 course concrete pavement. About $391,943.

Mo., Fulton—Until Sept. 4, by city, paving 14,000 sq.yd. 10th St., macadam or gravel. F. E. Baker, city engr.

Ark., Bentonville — Until Sept. 10, by Comrs. Benton Co., improving Road Dist. No. 4, and building 100 lin.ft. steel bridge. R. D. Alexander, Eureka Springs, engr.

Ark., Little Rock—Until Sept. 5, by Comrs. Northern Rd. Impvt. Dist., Arkansas Co., at office of State Highway Comn., Little Rock, building 75.9 mi. roads, Warrenite on rolled stone base or cement concrete, asphaltic concrete, asphaltic macadam (penetration method) or clay gravel. J. A. Kenny, Suttgart, chn.

Ark., Marion—Until Sept. 18, by Bd. Comrs. Rd. Impvt. Dists. Nos. 7, 8 and 9, Crittenden Co., building 80 mi. earth road embankment. Morgan Eng. Co., 622 Goodwyn Institute Bldg., Memphis, Tenn., engrs.; advertised in this issue.

Tex., Seguin—Until Aug. 25, by Comrs. Guadalupe Co., building with gravel surface and bituminous top, 3.256 mi. Austin-San Antonio Post Rd., or Highway No. 2, 16 ft. wide, involving 17,192 lin.ft. grading and scarifying and 28,653 sq.yd. bituminous macadam. About $27,720. Hess & Skinner, Southwestern Life Bldg., Dallas, engrs.

Wash., Prosser—Until Sept. 16, by city, building 15,000 ft. concrete sidewalk, 4 ft. wide. About $21,000. E. H. Stradling, Prosser, engr.

Wash., Seattle—Until Sept. 8, by Comrs. King Co., graveling and building 1700 ft. timber trestle on 9.1 mi. Woodinville-Duval Rd., involving 34,000 cu.yd. fill. About $35,000. S. Humes, co. engr.

Wash., Waterville—Until Sept. 2, by Comrs. Douglas Co., grading, draining and surfacing 16 mi. Rd. No. 4, near Withrow, cost $90,000; 7½ mi. L. I. D. Rd. No. 4, near Waterville, $45,000; both crushed rock or gravel. R. L. Richards, Waterville, engr.

Ore., Portland—Until Aug. 25, by Comrs. Multnomah Co., clearing, grubbing and laying drainage pipes on Hospital Rd. No. 938 from Marquam Hill to Terwilliger Blvd., involving 1000 cu.yd. intermediate excav., 1000 cu.yd. overhaul, 174 lin.ft. 24 in. rein.-con. pipe, 174 lin.ft. 24 in. corrugated iron culvert, 112 lin.ft. 18 in. corrugated iron culverts, 1266 lin.ft. 12 in. corrugated iron culverts, 112 lin.ft. 18 in. rein.-con. pipe, 55,000 cu.yd. common and 4000 cu.yd. rock excav. W. A. Eatchel, co. roadmaster.

Que., St. Armand—Until Aug. 28, by M. Henry, c/o Dept. Rds., Quebec, building 4½ mi. Provincial Highway, here, 22 ft. wide, 3 mi. waterbound macadam, balance gravel. About $12,000.

B. C., Victoria—Until Aug. 25, by A. E. Foreman, engr., Dept. Pub. Wks., building 2 in. asphaltic concrete surface and repaving sub-grade (old macadam road) on 2½ mi. Rd. No. 3, Lula Island, Richmond Co., 16 ft. wide, involving 23,500 sq.yd. concrete. About $40,000.

PRICES AND CONTRACTS AWARDED

(★Indicates award of contract)

★Vermont—State Highway Comn., Montpelier, let contract building 2.35 mi. bituminous macadam road, Fairlee Twp., to B. Perini, Ashland, Mass., $34,559; 1.4 mi. concrete road, Colchester and Essex Twps., to J. W. Duff, Inc., 146 Summer St., Boston, $43,613. Noted July 24.

★Connecticut—State Highway Comn., Hartford, let contracts, to F. B. Hastings, 1200 Wood Ave., Bridgeport, improving 4773 ft. Nichols Rd., Bridgeport Twp., $16,800; to F. Arrigoni & Bro., 605 Main St., Middletown, 4200 ft. Killingworth Rd., Chester Twp., and 5205 ft. Westmusle Rd., Canterbury Twp., $24,438; to Osborne-Barnes Co., Odd Fellows Bldg., Danbury, 5029 ft. Orange Sta. Rd., Orange Twp., $16,313; 5400 ft. Ells Hill Rd., Milford Twp., $29,792; to Interstate Constr. Co., Derby, 4515 ft. Hawleyville Rd., Newtown Twp., $14,901; to G. A. Wells, Groton, 4625 ft. Canterbury Rd., Plainfield Twp., $11,295; to A. Brazos & Sons, Inc., 66 Oak St., Middletown, 4350 ft. Gildersleeve Rd., Portland Twp., $11,285. Noted July 24.

★Conn., Danbury—City let contract repaving roadway on Main and Rose Sts., sheet asphalt, repaving and regulating White, Elm, River and Rose Sts., to C. W. Blakeslee & Sons, 58 Waverley St., New Haven. About $125,000. Noted Aug. 7.

★Conn., Hartford—Bd. Contr. & Supply let contract paving 6175 ft. Wethersfield Ave., to E. Balf Co., 26 State St., $81,247. Work involves 36,590 sq.yd. asphalt on 6 in. concrete base. Noted Aug. 7.

N. Y., Brooklyn—E. Riegelmann, boro. pres., received bids Aug. 13, regulating and grading with Grade 1 granite blocks, roadway of Rogers Ave. from Eastern Parkway to Empire Blvd., from M. J. O'Hara, 557 3rd St., $50,085, F. J. Gallagher, 490 Park Pl., $54,842, Leonard Paving Co., 233 Bway., New York City, $54,910; also regulating and paving with asphalt, Rogers Ave. from Empire Blvd. to Flatbush Ave., from Brooklyn Alcatraz Asphalt Co., 407 Hamburg Ave., $159,535, Cranford Co., 52 9th St., $165,996, Sicilian Asphalt Paving Co., 41 Park Row, New York City, $167,224.

N. Y., New York—F. L. Dowling, pres. Manhattan Boro., received lowest 3 bids Aug. 11, regulating, regrading and repaving with granite block on concrete base, West 46th St. from 11th Ave. to west line of new 12th Ave., from Asphalt Constr. Co., Madison Ave. and 137th St., $21,223; W. J. Fitzgerald, 547 West 45th St., $21,540; Burnside Constr. Co., 270 Burnside Ave., $21,680. Noted Aug. 7, under "Sewers."

★N. Y., Rochester—Bd. Contr. & Supply let contract paving Loomis St., asphalt, to J. L. Friedrichs Co., Livingston Bldg., $12,624; Plymouth Ave., asphalt, to Whitmore, Rauber & Vicinus, 279 South Ave., $18,495.

★N. Y., S. I., St. George—C. D. Van Name, pres. Richmond Boro., let contract building concrete curb and steel guard rail, etc., on Tompkins Ave. and Manor Rd., to J. Curran, Stapleton, $2797 and $59,437 respectively; Richmond Terrace, to Kraemer-Leedecke, 114 East 56th St., New York City, $1338. Noted Aug. 14.

★N. J., Elizabeth—Bd. Freeholders Union Co. let contract to C. H. Winans, paving Westfield Ave., Springfield Twp. $11,170; West Grand St., $21,895; both concrete.

★N. J., Hoboken—City let contract repaving Bloomfield St. between 5th and 14th Sts., 6th St. between Bloomfield and Garden Sts., 7th St. between Bloomfield and Garden Sts., asphalt, to W. T. S. Crichfield, Washington St. About $324,980. Noted Aug. 7.

★N. J., Jersey City—Bd. Freeholders Hudson Co. let contract repaving Paterson Plank Rd., to Curtin Bros., Guttenberg, $80,042. Noted July 31.

★N. J., Jersey City—City let contract repairing Grand St. and Pacific Ave., granite block, to G. Van Keuren Co., Prior St. Cost plus percentage basis. Noted July 3.

N. J., Jersey City—Hudson Co. Blvd Comn. let contract improving Hudson Co. Blvd. from Paterson Plank Rd. to Hackensack Plank Rd., to Clinton Contg Co., West Hoboken. About $133,000

★N. J., North Bergen—Town Council let contract improving Hamilton Ave., to A. Caponi, 710 Sip Ave., West Hoboken, 99% of ($61,000, engineer's estimate). Noted Aug. 7.

★N. J., Trenton—Comrs. Mercer Co. let contract improving 41,460 sq.yd. Old York Rd., to G. Fitcheroft, Farmingdale, $49,140. Noted July 31.

★Pennsylvania — State Highway Dept., Harrisburg, let contracts building roads in counties as follows:

Bradford Co., 15,207 ft. vitr. brick and bituminous surface course on concrete foundation, Athens, Sayre and South Waverly Twps., to Warren Bros. Co., 142 Berkeley St., Boston, $188,060;

Chester and Delaware Counties, 46,815 ft. bituminous mixture with broken stone base, Tredyffrin, Easttown and Radnor Twps., to Cunningham Paving & Constr. Co., 1345 Arch St., Phila., $99,258;

Erie Co., 20,400 ft. bituminous surface course on concrete foundation and Hillside vitr. brick or 1 course rein.-con. and Hillside vitr. brick, Girard Twp., to Griff Constr. Co., 1117 State St., Erie, $192,005; 21,120 ft. bituminous surface course on concrete foundation or rein.-con., Mill Creek Twp., to C. N. Fry Constr. Co., Cherry and 19th Sts., Erie, $128,607;

Montgomery Co., 5575 ft. concrete, East Norrilton Twp., to Field, Barker & Underwood, Commercial Trust Bldg., Philadelphia, $35,100; 37,723 ft. bituminous surface course on concrete foundation or rein.-con., Springfield, White Marsh, Upper Dublin, Lower Gynedd Twps., to Mainwaring & Cummins, Inc., 5600 Germantown Ave., Phila., $242,302;

Montgomery and Bucks Counties, 15,893 ft. bituminous surface course on concrete foundation or rein.-con., Montgomery and New Britain Twps., to H. E. Eaton, Phila., $126,334;

Susquehanna Co., 52,606 ft. bituminous surface course on concrete foundation or rein.-con., Hopbottom Boro., Lathrop, Lenox, Harford, and New Milford Twps., to Gaylord Eng. & Constr. Co., Mears Bldg., Scranton, $342,627;

Union Co., 11,434 ft. concrete, Lewis Twp., to T. L. Evans & Son, 344 Terry St., Danville, $67,367;

Washington Co., 1106 ft. vitr. brick, Canonsburg Boro., to Hardy & Rankin, Canonsburg, $18,416;

Westmoreland Co., 12,065 ft. rein.-con., Hempfield Twp., to Dawson Constr. Co., Inc., Connellsville, $107,856; 7434 ft. rein.-con., North Huntingdon Twp., to Hillside Stone Co., Farmers' Bank Bldg., Pittsburgh, $111,966. Noted Aug. 7.

★Pennsylvania—State Highway Dept., Harrisburg, let contracts to Arenberg & McDonald, Norfolk, Va., building 14,481 ft. rein.-con., Eastvale Boro and North Sewickley Twp., Beaver Co., $138,432; 26,383 ft. rein.-con., Pine Creek Twp., Jefferson Co., $237,516; 29,627 ft. rein.-con. and Hillside vitr. brick, Union and Mahoning Twps., Lawrence Co., $242,817. Noted Aug. 7.

★Pennsylvania — State Highway Dept., Harrisburg, let contract building 14,286 ft. bituminous surface course on concrete foundation or rein.-con. Piatt and Porter Twps., Lycoming Co., to W. J. Gephart, Pittsburgh, $126,272; 29,182 ft. rein.-con., Plainfield Twp., Northampton Co., to E. P. Arbogast, Stroudsburg, $217,812. Noted Aug. 14.

Pa., Phila.—Dept. Pub. Wks. received bids for (a) grading sections (1) Diamond St., (2) Erdrick St., (3) St. Vincent St., (4) 18th St., (b) paving sections of streets with asphalt and vitr. block gutters, (1) Belfield Ave., (2) Broad St., (3) Edgemont St., (4) Lansdowne Ave., (5) Limekiln Pike; (6) Osage Ave., (7) Pechin St., (8) Pentridge St., (9) Plum St., (10) Westford St., (11) 43rd St.; (c) paving Erringer Pl. with vitr. block; (d) paving with smooth dressed granite block Scotts Lane, (b 2) Wolf St., (e) improving with waterbound macadam and vitr block, sections of (1) Green St., (2) intersection of Park Line and Cliveden St., (3) Island Ave., (4) Ridge Ave., (5) 51st St., (f) repaving, (1) Courtland St., (2) Gerard Ave., (3) Ludlow St., (4) Lansdowne St., (5) Sansome St., (6) 34th St., (7) 49th St., (8) Susquehanna St., (g) repaving sections of streets with wood block, (1) Filbert St., (2) Woodland St.; (h) repaving sections of streets with granite block, (1) Susquehanna St., (2) 10th St.; (i) building bridge on line of Holmes Ave., over sections of Pennsylvania RR. tracks and Longford Ave.; (j) repairing bridges, from T. P. Lee, 5629 Cherry St., (a 1) $3026; R. P. Werner, 1007 Franklin Trust Bldg., (a 1) $3827, (a 2) $3667; F. Mark Constr. Co., 21st St. above Somerset St., (a 2) $4284, (4) $3979; Estate of R. P. Bennis, Chew and Price Sts., (a 2) $4287, (a 3) $3011, (c 1) $7155, (e 3) $1974; Friars & Jolley, 1414 South Penn

Streets and Roads (Continued)

Sq., (a 3) $2442, (a 4) $4828; T. Connor, 3329 North 5th St., (a 3) $2540; H. Kuemmerle, 310 Morris Bldg., (a 4) $4139; Eastern Paving Co., 401 Colonial Trust Bdg., (b 1) $12,323, (b 2) $10,794, (b 3) $10,847, (b4) $8574, (b5) $18,073, (b6) $4704, (b 7) $3560, (b 8) $3803, (b 9) $5101, (b 10) $5725, (b 11) $12,281, (f 1) $3201, (f 2) $31,943, (f 4) $29,884, (f 5) $4881, (f 6) $8878, (f 8) $7446; Union Paving Co., 30th and Locust Sts., (b 1) $12,735, (b 2) $10,189, (b 5) $16,346, (e 3) $27,258, (e 4) $66,923, (f 2) $26,094, (f 3) $4057, (f 4) $26,934, (f 5) $4374, (f 6) $6078, (f 7) $40,736, (f 8) $6315; Barber Asphalt Paving Co., 239 North 30th St., (b 1) $12,929, (b 2) $11,158, (b 3) $10,954, (b 4) $8168, (b 5) $17,309, (b 6) $4276, (b 7) $3230, (b 8) $3059, (b9) 4191, (b10) $4743, (b11) $11,592, (e 4) $85,648, (f 1) $2834, (f 2) $29,185, (f 3) $4060, (f 4) $37,549, (f 5) $3715, (f 6) $5331, (f 7) $47,398, (f 8) $5751; Mack Paving & Const. Co., Nicetown Lane and C St., (b3) $11,348, (b7) $3945, (b9) $4486, (b10) $5118, (c1) $6698, (e1) $4736, (e5) $7611, (h1) $17,329; Phila. Paving Co., 1345 Arch St., (b4) $9277, (b6) $4969, (b8) $3777, (f3) $4919, **(f7) $54,118; J. Meehan & Sons,** 915 West Dauphin St., (c1) $7149, (d1) $3621, (d2) $29,551, (e2) $1550, (f1) 4072, (h2) $9789; J. J. McHugh, 1430 South Penn Sq., (d2) $30,668, (e1) 4321, (e2) $1887, (e3) $1887, (g1) $5335, (h1) $15,229, (h2) $9931; Brown King Constr. Co., 1632 Commercial Trust Bldg., (d2) $32,037; M. J. McCrudden, 805 Franklin Trust Bldg., (e1) $4789, (e4) $84,428, (e5) $7684, Estate of D. McMahon, Germantown and Chelton Sts., (e5) $8214; E. C. Fish Co., 704 Real Estate Trust Bldg., (g1) $4212, (g2) $33,421, (h2) $10,098, (i) $188,767; Ryan Constr. Co., 33rd St. and Gray Ferry, (g2) $33,789; C. P. Bower, Tulip and Somerset Sts., (i) $187,665; W. Klingberg & Son, Inc., 50 Church St., New York City, (j) $1810.

★**Pa., Pittsburgh**—Allegheny Co. let contracts widening 10,500 ft. Verona Rd., Penn Twp., from 16-24 ft., asphaltic concrete surface on concrete foundation, to M. O'Herron Co., South 1st and McKean Sts., $64,792; 15,840 ft. Imperial and Clinton Rd., Findlay Twp., 16 ft. wide, to Columbus Asphalt & Paving Co., 1101 B. F. Jones Bldg., $106,481. Noted Aug. 14.

★**Maryland**—State Rds. Comn., 601 Garrett Bldg., Baltimore, let ontract paving 1.67 mi. Oakland Mill Rd., Contr. No. 500, to T. Mullan, 4001 Greenmount Ave., Baltimore, cost $47,981, 1.52 mi. Mt. Airy Rd., Contr. No. 511, to Peoples Lumber & Supply Co., Mt. Airy, $37,893, 1.08 mi. New Windsor Rd., Contr. No. 520, to Thomas, Bennett & Hunter, Westminister, $32,066, all 15 ft. wide, concrete, Carroll Co.; grading and draining 1.79 mi. Urbana Turnpike from Monocacy River Bridge to Hopeland, involving 17,915 cu.yd. grading, etc., Contr. F-27, Frederick Co., to M. J. Grove Lime Co., Lime Kiln, $24,295; paving 1.18 mi. Clarkesville Pike, 15 ft. wide, concrete, Contr. HO-8, Howard Co., to Claiborne, Johnston & Co., 910 Garrett Bldg., Baltimore, $52,422; 2 mi. York Rd. from Parkton toward Pennsylvania State Line, concrete, Contr. B-30 Baltimore Co., to T. Bresnan & Son, 2018 West North Ave., Baltimore, $64,912. Last item incorrectly noted in our issue of Aug. 7.

★**Md., Cumberland**—Allegany Co. will build 7 mi. highway from Barton to Pekin, 15 ft. wide, concrete, Contr. No. 317, cost, $26,893. State Rds. Comn., Baltimore, will appropriate half of cost. Work will be done by day labor.

★**W. Va., Huntington**—City let contract paving Oakland Ave., vitr. brick, to G. Hinkle, Carlisle Blk., $12,294.

★**W. Va., Lewisburg**—Comrs. Greenbrier Co. let contract grading and draining 6.5 mi. Ft. Springs Rd., 20 ft. wide, to Blodgett-Carola Co., Newark, O. About $43,230. Pipe to be furnished by county. Noted Aug. 14.

★**W. Va., Logan**—Logan Co. let contract paving 6000 ft. Logan-Monitor Jct. Rd., 16 ft. wide, involving 10,666 sq.yd. concrete, to Hard Constr. Co., Maysville, Ky., $2.60 per sq.yd. Total cost, $27,702.

★**W. Va., New Martinsville**—Comrs. Wetzel Co. will pave and grade 5 mi. New Martinsville-Wileyville Rd., surfacing 16 ft. wide, grading 26 ft. wide, vitr. brick on concrete base. About $83,300. Work will be done by day labor. Noted June 5.

★**W. Va., Wayne**—Comrs. Wayne Co. let contract grading and draining 3.2 mi. Armilda-Echo Rd., 26 ft. wide, to Shipe & Wentz, Barboursville, $41,103. Noted Aug. 14.

★**W. Va., Wellsburg**—Comrs. Brooke Co. will repair and resurface 1 mi. Wellsburg-Hollidays Cove Rd., 14 ft. wide, involving 7500 sq.yd. bituminous macadam. About $18,000. Work will be done by day labor.

★**W. Va., Wellsburg**—Comrs. Brooke Co. plan to build Eldersville-Colliers Rd., Washington Pike and Colliers Rd. Work will be done by day labor under supervision of G. Steenrod, co. engr.

★**W. Va., Wellsburg**—Comr. Brooke Co. let contract building 2 mi. River Rd., 16 ft. wide, involving 18,000 sq.yd. concrete, to Keeley Constr. Co., Clarksburg. About $56,000.

★**W. Va., Wheeling**—Comrs. Ohio Co. let contract paving 5365 sq.yd. National Rd. vitr. brick on 5 in. concrete base, to V. Vercoletti, Wheeling, $22,856.

★**W. Va., Wheeling**—Comrs. Ohio Co. let contract paving 3350 sq.yd. Zane St., vitr. brick on 5 in. concrete base, 3½ in. wire cut log, and ¾ in. sand cement cushion, to Coss & Otto, Wheeling, $13,433.

★**W. Va., Winfield**—Comrs. Putnam Co. let contract grading and draining 4 mi. Culloden-St. Albans Rd., 26 ft. wide, to Keeley Constr. Co., Clarksburg, $39,668. Noted June 24.

★**N. C., Lexington**—Comrs. Davidson Co. let contract improving streets., to Noll Constr. Co., 502 South Cedar St., Charlotte, $195,135. Work involves 25,000 sq.yd. asphalt, 35,000 sq.yd. bituminous concrete, 15,000 lin.ft. concrete curbing and guttering, 10,000 sq.yd. concrete sidewalks and 9000 cu.yd. earth excav.

★**N. C., Newton**—Catawba Co. let contract paving 1¼ mi. road, 28 ft. wide, to G. R. Mortine, Newton. About $90,000. Noted July 17.

S. C., Charleston—Comrs. Charleston Co. received bids surfacing 4.008 mi. Old State Rd. from Cosgrove Ave. to Berkeley Co. line, 50 ft. wide, from Powell Paving & Constr. Co., $137,301; Lawrence Constr. Co., 127 8th St., Augusta, Ga., $167,960; Waterfront Foundation Constr. Co., Charleston, $168,078. Noted Aug. 7.

★**Florida**—State Highway Comn., Tallahassee, let contract to Southern Clay Mfg. Co., Vol. St. Life Bldg., Chattanooga, Tenn., grading, draining and surfacing 6 mi. State Rd. No. 1, from Milton eastward, 16 ft. wide, involving 31,680 sq.yd. vitr. brick, 63,360 lin.ft. concrete curbing, and 25,129 cu.yd. earth excav. $113,227; to Finley Method Co., Daytona Beach, grading, drainage and surfacing with bituminous macadam 11.73 mi. State Rd. No. 2 from Columbia Co. line south to Burnetts Lake, 15 ft. wide, involving 103,223 sq.yd. bitumious macadam and 29,749 cu.yd. earth excav., etc., $186,631.

★**Ala., Birmingham**—Bd. Revenue Jefferson Co. let contracts grading 8 mi. Mt. Olive Rd., 20 ft. wide, involving 45,800 cu.yd. grading, 30,800 cu.yd. rock, to O'Brien Constr. Co., Birmingham, cost $89,446; repairing with bitulithic surface 26th St. from 1st to 8th Aves. and 3rd Ave. from 21st to 26th Sts., to Southern Bitulithic Co., Amer. Trust Bldg., $10,000; paving 2 mi. 1st Ave. from 41st to 47th St. and 67th to 77th Sts., 30 ft. wide, sheet asphalt on concrete base, to Dunn Constr. Co., Chamber Commerce Bldg., $82,940. Noted July 17.

Ala., Birmingham—Bd. Revenue Jefferson Co. received bids paving 1 mi. 1st Ave. from 71st St. to Roebuech Springs, 30 ft. wide, on concrete base, from H. N. Bowdry, Birmingham, $2.35 for asphaltic concrete; Dunn Constr. Co., Chamber Commerce Bldg., $2.95 sheet asphalt. Noted July 17.

★**Ala., Birmingham**—Bd. Revenue Jefferson Co. let contracts paving (a) 5.72 mi. South Bessemer Rd., Project No. 57, 20 ft. wide, involving 67,091 sq.yd. asphalt on 5 and 7½ in. concrete base, 27,606 cu.yd. grading, (b) 4 mi. Birmingham and Montgomery Highway, Project No. 18, 20 ft. wide, 47,520 sq.yd. bitulithic on 5 and 7½ in. concrete base, 17,300 cu.yd. grading, (c) 3.82 mi. Old Stouts Rd., Project No. 56, 20 ft. wide, 44,861 sq.yd. bitulithic on 5 and 7½ in. concrete base, 16,309 cu.yd. grading, (d) 5 mi. Jasper Rd., Project No. 59, 20 ft. wide, 59,111 sq.yd. on 7 and 9½ in. concrete base, 27,249 cu.yd. grading, (e) 5 mi. Mt. Pinson Rd., Project No. 55, 20 ft wide, 58,893 sq.yd. bitulithic on 5 and 7½ in. concrete base, 15,795 cu.yd. grading (f) grading 3.2 mi. Leeds and Lovick Rd., Project No. 58, 24 ft. wide, to J. F. Morgan, Woodward Bldg., (a) $[illegible], Southern Bitulithic Co., Amer. Trust Bldg., (b) $174,597, (c) $166,777, (d) $[illegible], Lawrence Constr. Co., 127 8th St., Augusta, Ga., (e) $213,577; W. H. Taylor, Wilsonville, (f) $48,663. Noted July 24.

Louisiana—State Highway Dept., 736 Maison Blanche Bldg., New Orleans, Received only bid Aug. 11, gravel surfacing and draining 17.89 mi. Natchitoches-Many-Natchitoches-Colfax Highways, 30 ft. wide, in Natchitoches Parish, from W. S. Bonner, New Orleans, $151,309. Noted Aug. 7 under "Natchitoches."

★**O., Columbus**—G. A. Borden, dir. pub. serv., let contracts grading, draining, laying water mains and paving 3rd St. from Livingston to Reinhard Aves. and Stanley Ave. from Heyl Ave. to 22nd St., asphalt, to Franklin Asphalt Paving Co., Columbus, cost $57,234 and $17,467 respectively; Monroe Ave. from Broad to Long Sts., asphalt, A. G. Pugh, Columbus, $10,528; Grant Ave. from 5th to 11th Aves., brick, R. F. Dienst, 2515 West Broad St., $38,529. Noted Aug. 14.

★**O., Hamilton**—City let contract paving 1500 ft. Dick, Edgewood, Rhea, Virginia and Gray Sts., 30 ft. wide, sheet asphalt on concrete base, to Federal Asphalt Paving Co., 125 Main St., $53,504. Noted Aug. 7.

★**O., Lisbon**—Columbiana Co. let contract grading, draining and paving 1.14 mi. New Waterford Rd., 14 ft. wide, involving 9419 sq.yd. bituminous macadam, to Hepburn & McLean, Lisbon, $24,279; 2.24 mi. Columbiana and Leetonia Rd., 18,316 sq.yd. bituminous macadam, to Morgan Bros., Leetonia, $46,127.

★**O., Springfield**—City let contract paving Limestone St. from North to Rice Sts., wood block and asphalt on concrete base, to E. Ryan, Cincinnati, $130,000. Contract was awarded on basis of revised estimate, after no bids were received on original estimate. Noted July 31.

★**O., Toledo**—Comrs. Lucas Co. let contracts to M. P. Hannin, 434 Valentine Bldg., paving 2.56 mi. Obee Rd., 10 ft. wide, involving 14,900 sq.yd. waterbound macadam and 11,854cu.yd. excav., cost $19,967, 2.96 mi. Midway Rd., 10 ft. wide, 17,240 sq.yd. waterbound macadam and 14,641 cu.yd. excav., $29,436, 1.44 mi. Suder Ave., 16 ft. wide, 13,590 sq.yd. plain concrete and 4437 cu.yd. excav., $34,293; T. P. Garrigan Co., 109 St. Clair St., 2.01 mi. Seaman St., 16 ft. wide, 18,910 sq.yd. waterbound macadam and 3400 cu.yd. excav., $34,684; P. Watters, 531 Lincoln Ave., 1.49 mi. Bennett Rd., 16 ft. wide, 14,500 sq.yd. 6 and 8 in. plain concrete and 5519 cu.yd. excav., $39,105; Schneider & Benschoter, 398 Batavia St., 1.02 mi. Bury Rd., 16 ft. wide, 9500 sq.yd. waterbound macadam and 3411 cu.yd. excav., $17,368. Noted July 31.

★**Mich., Detroit**—City let contract to J. Porath, 34 McGraw Bldg., paving Alley No. 1046, cost $3817; No. 1047, $1908; No. 1048, $1451; No. 1051, $1313; No. 1053, $2119; No. 1054, $1300; No. 1055, $2926; No. 1056, $3755; Otis Constr. Co., 806 Hammond Bldg., No. 1049, $4040; No. 1057, $5463; Talbot Co., 400 Penobscot Bldg., No. 1050, $3501; No. 1052, $4742. Noted Aug. 14.

★**Mich., Ecorse**—City let contract furnishing labor and material grading and paving Labadie and State Sts. to Rice Constr. Co., Wyandotte. About $52,000. Work involves 11,500 sq.yd. concrete and 7000 lin.ft. concrete curbing.

★**Ill., Alton**—Bd. Local Impvts. let contract paving West Cottage Ave., brick, to Stafford & Miller Constr. Co., Alton. About $5500.

★**Ill., Belleville**—St. Clair Co. let contract grading Belleville—Mascoutah Rd., to Tritt Bros., Belleville, $25,413.

★**Ill., Chicago**—Cook Co. let contract paving following state and road work, Nies Twp., Sect. 59-15d, Route No. 1-A, Crawford Ave. beginning at north city limits and extending north to point 2275 ft., 7 in. concrete, 18 ft. roadway with 4 ft. earth shoulders, to Ready & Callaghan Coal Co., 133 West Washington St., $14,708; Bloom and Rich Twps., Sects. 60-15d and 60-A, Route 30, Flossmoor Rd. at intersection with Dixie Highway and extending west to

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point 3702 ft., 7 in. concrete, 18 ft. roadway, with 3½ ft. earth shoulders, to Central Paving Co., 133 West Washington St., $22,529; Norwood Park Twp., Sect. 61-15d, Route No. 9C, Canfield Rd., beginning at south city limits and extending south to point 4512 ft., 7 in. concrete, 18 ft. roadway, 6 ft. earth shoulders, to A. L. Heagstedt, 133 West Washington St., $26,193. Noted July 31.

★**Wis., Clintonville**—City let contract grading and paving 2.1 mi. 3rd and Main Sts., 18 ft. wide, to Olson & Thompson, Clintonville, $17,492. Work involves 7000 sq.yd. concrete, 2109 lin.ft. concrete curb and gutter and 1850 lin.ft. concrete sidewalks.

★**Wis., Reedsburg**—City let contract-grading and paving South Water and 6th Sts., 2.8 mi., Park Ave. 18 ft. wide, to Sweeney Bros., Main St., 21,790. Noted Aug. 7.

★**Ia., Marion**—City let contract improving main streets, to Ford Paving Co., 208 2nd Ave., Cedar Rapids, concrete paving $2.96 per yd., brick block, $3.94 per yd., grading, $0.80 per yd., curbing, $0.85 per ft.

★**Minn., Appleton**—H. W. Steele, village aud., let contract for 21,987 sq.yd. pavement, to Johnson & Drake, 905 Plymouth Bldg., Minneapolis, $3.36 per sq.yd. Noted June 26.

★**Minn., Little Falls**—Morrison Co. will grade and gravel 24 mi. Federal Aid Project No. 24, 24 ft. wide. Work will be done by county day labor. Former bids rejected. Noted August 14.

★**Minn., Madison**—Lac Qui Parle Co. let contract grading and graveling 20 mi. and graveling 30 mi. Federal Aid Projects Nos. 54, 55 and 56, 24 ft. wide, to Siems, Helmars & Schaffner, Guardian Life Bldg., St. Paul. About $115,000. Noted June 12.

★**Minn., Windom**—Comrs. Cottonwood Co. let contract grading 17 mi. Federal Aid. Project No. 43, State Rd. No. 12, 12 ft. wide, to Cameron, Joyce & Co., Keokuk, Ia. About $26,000. Noted May 29.

★**Kan., Junction City**—City let contract paving 13th St. from Jackson to Monroe St. and 9th St. to Highway, to E. T. Meek Co., Muskogee, Okla., 2 course concrete, $2.32 per sq.yd.; M. A. Amerman, Salina, vertical fibre on 5 in. base, $3.75 per sq.yd. Noted July 10.

★**Neb., Fremont**—Dodge Co. let contract paving 6 mi. road to H. Murphy Constr. Co., 204 Karbach Blk., Omaha, $179,270. Noted July 17.

★**S. D., Millbank**—Town let contract for 10,000 sq.yd. concrete paving 18 ft. wide, to Campbell Constr. Co., 3050 Hennepin Ave., Minneapolis, $35,749. Noted June 12.

★**Wyoming**—State Highway Comn., Cheyenne, let contract building 2.16 mi. Lincoln Highway from Laramie east, Contr. No. 32, Albany Co., Ames & Braisted, Laramie, about $26,153; 9.2 mi. Platt River Highway, Sect. 1, from Lingle to Torrington, Contr. 37, Goshen Co., to S. L. Smith, Henry, Neb., grading and culverts, $35,000, Levy Constr. Co., 630 Symes Bldg., Denver, concrete and bridgework, $11,000; 3.38 mi. Yellowstone Highway from Thermopolis north, Contr. No. 38, Hot Springs Co., to D. R. Malcolm, Casper, $30,000; 4.16 mi. Sheridan-Dietz Rd., Contr. 28, Sheridan Co., to J. E. Johnson, Sheridan, $45,000. Noted July 24.

★**Mont., Lewistown**—City let contract to C. W. Johnson, 216 West Corcoran St., grading and paving with bitulithic, Boulevard St. from 7th to 11th Aves., $16,833; boulevarding and grading various streets in Dist. No. 32, $21,862; boulevarding and grading Barnes St. from 5th to 6th Aves. and Erie St. from 4th to 9th Aves., $11,524. Noted June 19.

★**Mo., St. Louis**—Bd. Pub. Serv. let contracts to Granite-Bituminous Paving Co., Ry. Exch. Bldg., improving and paving Taska St. from Kingshighway to Brannon Ave. and Brannon Ave. from Walsh St. to Nottingham Ave., 40 ft. wide, cost $16,379 and $29,941 respectively; to J. F. McMahon Constr. Co., Title Guarantee Bldg., 7th and Chestnut Sts., rebuilding and paving Lombard St. from 2nd to 4th Sts., 40 ft. wide, $10,330. Noted June 26.

★**Texas**—State Highway Dept., Austin, let contract earth and gravel surfacing and building rein.-con. drainage structures on 10.849 mi. Highway No. 30, from 1 mi. north of Buffalo Gap south to 1 mi. west of Tuscola, 16 and 24 ft. wide, (b) 20.66 mi. Highway No. 30 from Abilene to Runnels Co. line, 16 ft. wide, (c) 2.998 mi. Highway No. 7, 16 ft. wide, (d) 5.405 mi. Highway No. 7, 16 ft. wide, from Womack Constr. Co., Houston, (a) $30,719, (b) $60,117, (c) $14,181, (d) $23,763; Sanders Bros., Miami, (a) $30,984, (b) $61,818, (c) $14,043, (d) $23,280. Noted Aug. 7.

★**Tex., Brownwood**—Brown Co. let contract building Oil Belt Highway through Blanket Precinct, to Smith & Helms, Temple, $87,791.

Tex., Canton—Van Zandt Co. received bids building graveled road and rein.-con. drainage structures on 9.889 mi. Highway No. 15 or Dixie Highway, Federal Aid Project No. 84, 24 ft. wide, from D. Laroe, Chandler, $126,213; Allhands & Davis, Wills Point, $133,128. Noted June 5.

Tex., Clarksville—Red River Co. received bids gravel surfacing and building rein.-con. drainage structures on 16 mi. Highway No. 35, known as "Choctaw Trail," 14 ft. wide, involving 33.56 acres clearing and grubbing, 543 cu.yd. Class "A" concrete, 89,265 cu.yd. unclassified earth excav., 34,394 lb. reinforcing steel, 816 bbl. Portland cement, etc., from Harris & Powell, Tyler, $79,773; Sline, Stanley & Beyers, Waco, $87,865; Allhands & Davis, Wills Point, $88,131. Noted July 17.

★**Tex., Orange**—Orange Co. let contract improving roads and bridges, to Westcott Eng. Co., 111 West Washington St., Chicago. About $1,000,000. Noted May 22.

Tex., Seymour—Baylor Co. received only bid draining and gravel surfacing with caliche or clay 4.31 mi. Highway No. 30, east and west of here, 16 ft. wide, involving 11,589 cu.yd. earth excav., 75 cu.yd. Class A, 31 cu.yd. Class B and 18 cu.yd. Class C concrete, 8409 lb. reinforcing steel and 146 ft. 12-30 in. c.i. pipe, from W. E. Stephens, Seymour, $24,401. Noted July 31.

★**Tex., Tyler**—Smith Co. let contract building roads, to D. K. Caldwell, Jackson, Miss. About $1,500,000.

Tex., Vernon—Wilbarger Co. received bid paving (a) 4.66 mi. Vernon-Oklaunion Rd., Highway No. 5, Federal Aid Project No. 57, 14 ft. wide, involving 43,600 sq.yd. pavement, (b) Vernon-Oklaunion Rd., involving 8180 sq.yd. pavement, (1) monolithic brick, (2) 3 in. brick, (3) 6 in. one course concrete, from H. K. McCollum, 1st Natl. Bank Bldg., Ft. Worth, (a1) $3.98 per sq.yd., total cost, $173,328, (a2) $4.30, $187,480, (a3) $3.63, $157,832; (b1) $3.45, $28,221, (b2) $3.85, $31,493, (b3) $3.25, $26,585. Noted Mar. 27.

★**Okla., Poteau**—City let contract paving main streets and alleys, with concrete, to Morgan Constr. Co., Little Rock, Ark. About $86,000.

★**N. M., Alamogordo**—City let contract laying concrete sidewalks on 10th St., New York, Indiana and Ohio Aves., 10 ft. wide, involving over 60,000 sq.yd. concrete on 4 in. concrete base, to A. M. Horn, Alamogordo, at $0.16½ per sq.ft. About $10,000.

★**Idaho, Sand Point**—City let contract building 241,857 sq.ft. concrete sidewalk, to Lord Constr. Co., Hamilton, Mont. About $48,000.

★**Utah**—State Highway Comn., Salt Lake City, let contract surfacing 2.94 mi. Provo Heber Rd. in Provo Canyon, 18-20 ft. wide, to Heislett Constr. Co., Salt Lake City, $32,270.

★**Wash., Centralia**—City Council let contract paving 1st St., et al., involving 11,055 sq.yd. 1 course concrete, to Hendricks, Albers & Son, Centralia, $33,353.

★**Wash., Kent**—City Council let contract building concrete sidewalks on 3 mi. Main St., et al., to Ford & White, Auburn, $16,768.

Wash., Seattle—Bd. Pub. Wks. received bids Aug. 8, paving 12th Ave. N. E., involving 9275 sq.yd. 6 or 7 in. concrete, 5920 lin.ft. concrete curbing and 2100 cu.yd. earth excav., from J. L. Smith, $31,448; Kaiser Paving Co., $32,541; Florito Bros., $35,770. Contractors all of Seattle.

★**Wash., Seattle**—Comrs. King Co. let contract grading and paving 3.19 mi. E. G. Sylvester Rd., 16 ft. wide, involving 29,675 sq.yd. 1 course concrete and 71,000 cu.yd. earth excav., to G. A. Ferguson, 628 11th Ave., $83,750. Noted July 24.

SEWERAGE SYSTEM—PLEASANTVILLE, N. J.

Bids were received by city for constructing sanitary sewerage system, from (A) Edwin G. Britz, 1759-61 Park Ave., New York City, (awarded contract); (B) E. H. Oliver Constr. Co., 1205 Real Estate Trust Bldg., Phila.; (C) Ralph E. Relly, 182 Ferry Street., Easton, Pa.; (D) Bruno Pizzimenti, Pitman, N. J., 103,676; (E) Martin & Miller, Caldwell, N. J., $113,593. The unit bids of the lowest 3 bidders were as follows:

	A	B	C
790 lin.ft. 8-in. t.c. pipe, 0–4 ft. deep	$0.75	$0.98	$0.73
5,917 lin.ft. 8-in. t.c. pipe, 4–6 ft. deep	.80	1.00	.80
25,578 lin.ft. 8-in. t.c. pipe, 6–8 ft. deep	.90	1.05	1.15
1,782 lin.ft. 8-in. t.c. pipe, 8–10 ft. deep	1.40	1.90	1.80
865 lin.ft. 8-in. t.c. pipe, 10–12 ft. deep	1.80	2.50	2.80
261 lin.ft. 10-in. t.c. pipe, 0–4 ft. deep	1.00	1.15	.83
3,997 lin.ft. 10-in. t.c. pipe, 4–6 ft. deep	1.10	1.15	.90
3,175 lin.ft. 10-in. t.c. pipe, 6–8 ft. deep	1.20	1.20	1.20
1,483 lin.ft. 10-in. t.c. pipe, 8–10 ft. deep	1.80	2.00	2.00
586 lin.ft. 10-in. t.c. pipe, 10–12 ft. deep	2.30	3.00	3.00
218 lin.ft. 10-in. t.c. pipe, 12–14 ft. deep	3.00	4.50	4.50
120 lin.ft. 12-in. t.c. pipe, 0–4 ft. deep	1.20	1.20	1.00
1,532 lin.ft. 12-in. t.c. pipe, 4–6 ft. deep	1.50	1.20	1.00
384 lin.ft. 12-in. t.c. pipe, 6–8 ft. deep	2.00	1.70	1.34
1,142 lin.ft. 12-in. t.c. pipe, 8–10 ft. deep	3.00	2.10	2.40
544 lin.ft. 12-in. t.c. pipe, 10–12 ft. deep	4.00	3.00	3.40
240 lin.ft. 12-in. t.c. pipe, 12–14 ft. deep	5.00	4.00	4.80
60 lin.ft. 15-in. t.c. pipe, 0–4 ft. deep	1.70	1.70	1.20
100 lin.ft. 15-in. t.c. pipe, 4–6 ft. deep	2.10	1.90	1.40
40 lin.ft. 15-in. t.c. pipe, 6–8 ft. deep	3.00	2.45	1.60
96 lin.ft. 10-in. c.-i. pipe, 6–8 ft. deep	6.00	10.00	7.00
96 lin.ft. 10-in. c.-i. pipe, 4–6 ft. deep	5.00	10.00	6.00
60 lin.ft. 10-in. c.-i. pipe, 14–16 ft. deep	10.00	25.00	20.00
96 lin.ft. 12-in. c.-i. pipe, tunneled	15.00	25.00	30.00
36 lin.ft. 8-in. c.-i. pipe, 8–10 ft. deep	7.00	10.00	20.00
60 lin.ft. 12-in. c.-i. pipe, 16–18 ft. deep	18.00	30.00	30.00
969 t.c. 8x5 in. "Y" branches	.70	.80	.65
189 t.c. 10x5 in. "Y" branches	1.00	1.35	.75
100 t.c. 12x5 in. "Y" branches	1.25	1.65	.85
9,864 lin.ft. 5-in. t.c. house connections	.60	.65	.75
150 ver. ft. 5-in. t.c. deep house connections	.70	.40	.40
8 manholes, type "A" 0–4 ft. deep	45.00	63.00	50.00
26 manholes, type "A" 4–6 ft. deep	50.00	65.00	60.00
68 manholes, type "A" 6–8 ft. deep	60.00	80.00	80.00
12 manholes, type "A" 8–10 ft. deep	75.00	100.00	100.00
7 manholes, type "A" 10–12 ft. deep	90.00	120.00	135.00
2 manholes, type "A" 12–14 ft. deep	120.00	160.00	200.00
1 flush tank, type "A" 6–8 ft. deep	190.00	220.00	185.00
7 flush tanks, type "B" 6–8 ft. deep	120.00	190.00	125.00
4 flush tanks, type "B-B" 4–6 ft. deep	125.00	180.00	110.00
15 lampholes, complete	15.00	15.00	20.00
1,865 sq.yd. bituminous repaving	2.30	2.75	1.50
35,000 lin.ft. trench gravel repaving	.10	.06	.25
70 manhole buckets	4.00	6.00	5.00
500 lin.ft. 5-in. t.c. pipe, class "B" joints	12	.09	.08
2,500 lin.ft. 8-in. t.c. pipe, class "B" joints	15	.14	.10
2,000 lin.ft. 10-in. t.c. pipe, class "B" joints	18	.17	.15
2,000 lin.ft. 12-in. t.c. pipe, class "B" joints	22	.23	.20
200 lin.ft. 15-in. t.c. pipe, class "B" joints	.28	.28	.30
20 ver. ft. drop pipe in drop manhole	4.00	4.00	1.50
3,000 b.m. rough hemlock or pine, 2x8-in. plank	60.00	80.00	75.00
Extended totals	$86,310	$98,879	$102,979

Streets and Roads (Continued)

★**Oregon**—State Highway Comn., Salem, let contract grading 9.5 mi. Butte Creek Sect. of John Day Highway, Wheeler Co., to J. F. Clarkson, Vancouver St., Portland, $47,743; 9.8 mi., Canyonville-Myrtle Creek Sect. Pacific Highway, Douglas Co., to H. J. Hildeburn, Roseburg, $85,950; grading and macadamizing 8.5 mi. Yoncalla Sect. Pacific Highway, Douglas Co., to A. Anderson, Drain, $97,820; 9.7 mi. Haines-Baker Sect. Old Oregon Trail, Baker Co., to F. C. Oxman, Portland, $96,074; paving 4.16 mi. Salem-Brooks Sect. Pacific Highway, Marion Co., to Blake-Compton Co., Portland, $92,446; 2 mi. Dalles-Three Mile Sect. of The Dalles-California Highway, Wasco Co., to United Contg. Co., Northwest Bank Bldg., Portland, $46,189; 11.8 mi. Athena-Milton Sect., Umatilla Co., and macadamizing 4.5 mi. Stage Rd. Pass-Wolf Creek Sect. Pacific Highway, Josephine Co., to Warren Constr. Co., Journal Bldg., Portland, $260,940 and $40,125 respectively. Noted July 31.

Oregon—State Highway Comn., Portland, received bids Aug. 5, improving (a) .9 mi. Rainier City Sect. Columbia River Highway, Columbia Co., (b) 23.9 mi. Jefferson Co. Line-Bend Sect. The Dalles-California Highway, Deschutes Co., (c1) 5.3 Roseburg-Wilbur Sect. Pacific Highway, (c2) 11.1 mi. Canyonville-Galesville Sect. Pacific Highway, Douglas Co., (d) 1.4 mi. Divide-Douglas Co. Line Sect. Pacific Highway, Lane Co., (e) 3.9 mi. Lone Pine-Hot Lake Sect. Old Oregon Trail, Union Co., (f) 7.9 mi. Yamhill-Gaston Sect., Forest Grove-McMinnville Highway, Yamhill Co., (3) corrugated iron pipe, (4) crushed stone macadam, (5) broken stone macadam, (6) crushed gravel macadam, (7) run of bank gravel macadam, from Portland Bridge Co., Yeon Bldg., Portland, (a) $26,935; Johnson Contract Co., Lumber Exch. Bldg., (b3) $109,185; Clarke-Henry Constr. Co., (c1) $48,550; J. Hampshire Co., (c2) cost plus 10%; L. O. Herrold, Salem, (c2) $78,610; Warren Constr. Co., Journal Bldg., Portland, (c2) $74,243; J. H. Hawley & Co., (d4) $13,801, (d5) $13,801; Northwest Constr. Co., (f6) $106,672; Yamhill Co. Court, McMinnville, (f7) $93,893. Noted July 31.

Ore., Portland—City Council received bids Aug. 6, improving (a) East 72nd St. from East Glisan St. to Thorburn Ave., (b) East 6th St. and Tacoma Ave., (c) Stockton St. from Lombard to Oberlin Sts., (d) Linn Ave. from East 9th to East 11th Sts., (e) Kern Park from 67th St. S. E. to 46th Ave., (f) Webster St. from Denver Ave. to Gay St., (g) East Caruthers St. from Brushs 2nd addition to East 26th St., (h) East 13th St. from Alberta to Humboldt Sts., (i) Smith Ave. from Bristol to Fessenden Sts., (j) East 30th St from Holman St. to Ainsworth Ave., (k) 5th Ave. from Nevada St. to Taylor's Ferry Rd., (l) Elliott Ave. from Hawthorne Ave. to Division St., (m) Kilingsworth Ave., from 30th to 42nd Sts., (n) East 8th and Jarrett Sts., (o) East 33rd St. from Shaver to Fremont Sts., (p) East 33rd and Tibett Sts., (q) East 69th St. from Siskiyou St. to Sandy Blvd., (r) Leo Ave. from Milwaukee to East 13th Sts., (s) East Market St., from 29th to 30th Sts., (t) Emerson St. from Denver Ave. to Delaware Sts., (u) East 12th St. from Going to Alberta Sts., (1) asphaltic concrete No. 1 in roadway, (2) asphaltic concrete No. 1 redress, (3) concrete pavement in roadway, (4) asphaltic concrete No. 1 top 2 in. thick, (5) concrete pavement No. 1 in roadway, (6) concrete No. 1 from

Warren Constr. Co., Journal Bldg., (a1) $1.42 per sq.yd., total $14,346, (b) $28,093, (c1) $1.59 per sq.yd., $6771, (d1) $1.53 per sq.yd., $5698, (f1) $1.48 per sq.yd., $4367, (g1) $1.31 per sq.yd., $1290, (h1) $1.42 per sq.yd., $2480, (j1) $1.43 per sq.yd., $7902, (l2) $1.89 per sq.yd., $25,129, (m1) $1.49 per sq.yd., $20,945, (n1) $1.48 per sq.yd., $14,107, (o1) $1.37 per sq.yd., $21,552, (p1) $1.85 per sq.yd., $11,708, (q1) $1.46 per sq.yd., $2951, (r1) $1.42 per sq.yd., $9843, (s1) $1.34 per sq.yd., $2860, (t1) $1.48 per sq.yd., $10,274, (u1) $1.42 per sq.yd., $8852;

Cochran Bros., Portland, (c3) $2.25 per sq.yd., $5605, (g) $1537, (h3) $2.10 per sq.yd., $2310, (n3) $2.15 per sq.yd., $13,639, (o) $22,226, (s) $2750, (t3) $2.10 per sq.yd., $9620, (u) $8466;

Municipal Paving Plant, (c4) $1.00 per sq.yd., $1332, (d) $1360, (f) $1430, (g) $622, (h) $935, (n) $4185, (o) $9486, (p) $5298, (r) $3736, (s) $656, (t) $4120, (u) $3218; J. Keating, (d5) $2.35 per sq.yd., $5737, (r5) $2.30 per sq.yd., $10,706;

S. Simonsen, 841 East 10th St., N., (k6) $2.40 per sq.yd., $14,243, (o6) $2.05 per sq.yd., $20,927, (p6) $2.08 per sq.yd., $12,252;

J. Rebman, (i) $2725; J. Rahn, (i) $3432. Noted Aug. 14.

★**Ore., Sheridan**—City let contract paving and placing drain tile on various streets, to V. R. Dennis Constr. Co., McMinnville and C. W. Cook, Sheridan. Work involves 2750 sq.yd. asphaltic concrete, 5237 sq.yd. waterbound macadam and 3000 sq.yd. resurface macadam. Noted July 31.

★**Cal., Colusa**—City let contract paving Main St., et al, to Clark & Henry Constr. Co., Stockton. About $75,000. Work involves concrete paving $.26 per sq.ft., finish grading, $0.03 sq.ft., concrete curbs and gutters, $1 lin.ft.

★**Cal., Fairfield**—Bd. Supervs., Solano Co., let contract grading and paving 6 mi. roads in Suisun Valley, concrete, to Bates & Borland, 593 Market St., San Francisco, $143,220.

★**Cal., Los Angeles**—Bd. Pub. Wks., let contract building 4½ mi. highway from here to San Pedro Harbor, known as Municipal Impvt. Dist. No. 7, 20 ft. wide, to P. L. Ferry, 614 East Acacia St., Glendale, $156,093. Work involves 435,000 sq.ft. concrete paving, $0.15 per sq.ft., 214,280 sq.ft. grading, oiling and rolling, $0.05, excavation, $70,000, concrete, timber, vitr. pipe culverts, bulkheads, etc., $10,000, 258 ft. cement curb, $0.50 per ft. Noted July 24.

★**Cal., Los Angeles**—City let contract building Normandie Ave., involving 148,028 sq.ft. grading, 142 sq.ft. asphalt paving, 147,886 sq.ft. Warrenite paving, 724 lin.ft. cement curbing, 2990 sq.ft. cement walks, 6247 sq.ft. concrete gutters, 1610 sq.ft. granite block gutters, and 6 in. house connecting sewers, to G. H. Oswalk, 356 Bway., $44,034.

Cal., Martinez—Bd. Superv. Contra Costa Co. received only bid surfacing 4½ mi. road between Pittsburgh and Antioch, asphalt, from A. H. Kapperud, Martinez, $33,000.

★**Cal., Newport Beach**—City let contract paving 28th, 30th and 31st Sts. and alley, to Rogers Bros. Co., 350 Merrick St., Los Angeles, street paving, $.258 per sq.ft., alley paving $.083 per sq.ft., total, $18,480. Noted July 31.

★**Cal., Oakland**—City let contract improving 37th Ave. from East 14th St. to southwest line, involving 7361 sq.yd. oil macadam, 3218 lin.ft. concrete curbing and 12,457 sq.ft. concrete guttering, to Hutchinson Co., 444 17th St., $17,632; 87th Ave., involving 5573 sq.yd. oil macadam, 3703 lin.ft. redwood curbing and 10,596 sq.ft. concrete guttering, to Bates & Borland, Bway. and 12th St., $13,223. Noted Aug. 14.

★**Cal., San Diego**—City Council let contract to Fairchild-Gilmore-Wilton Co., 25 14th St., improving Morena Blvd. and Linda Ave., involving 4940.6 cu.yd. excav. and 4122.3 cu.yd. embankment in berms at 50 cts. per cu.yd., 343,424 sq.ft. 1½ in. Warrenite on 4 in. concrete base, 25 cts. per sq.ft., culverts, $6000. Noted Aug. 7.

Railways

BIDS DESIRED

Connecticut—Connecticut Co., 185 Church St., New Haven, soon receives bids laying about 1,000 ft. grooved rail tracks with several switches over State and Water Sts. Bridgeport, in connection with new plaza. About $35,000.

Ontario—City of Toronto soon receives bids building double track line on Bloors St. from Quebec to Runnymede Aves. About $160,000. R. C. Harris, City Hall, engr.

Ontario—City of Toronto having report prepared by R. C. Harris, city engr., for extension of civic electric car line and purchase of new cars, equipment, etc. About $5,000,000.

Excavation and Dredging

PROPOSED WORK

Miss., Oxford—Ditches—Bd. Drainage Comrs., Lafayette Co., soon lets contract building ditches in Taylor and Wells Creek D. D. C. W. Johnson, 301 Wagner St., Water Valley, engr.

Miss., Pittsboro—Ditches—Calhoun Co. Bd. Drainage Comrs. soon lets contract building ditches on Loosa Schoona River D. D., involving 1,250,000 cu.yd. excav. C. W. Johnson, 301 Wagner St., Water Valley, engr.

Ore., Klamath Falls—Reclamation—Doak & Brown and J. F. Adams plan to reclaim about 95,000 acres tule land on Upper Klamath Lake and build 25 mi. dyke; also repair 15 mi. Klamath dyke. About $80,000.

Cal., Placerville—Irrigation—S. C. Beach appointed chairman of committee to secure estimates for irrigation system to cover 30,000 acres in central part of El Dorado Co. Engineer not selected.

BIDS DESIRED

N. Y., New York—Dredging—Until Aug. 25, by M. Hurlburt, comr. docks, Pier A, Battery Pl., dredging 115,000 cu.yd. at north and south sides Pier 59, south side Pier 64, north and south sides Pier at West 52nd St., north and south sides West 54th St. pier, south side West 58th St. pier, North River, Manhattan Boro., 29,000 cu.yd. east side Pier 36, north side Pier 50, 51, 52, East 4th St. and bulkhead foot East 14th St., East River, Manhattan Boro., Contr. 1625.

N. J., Toms River—Ditch—Until Sept. 10 by Mosquito Extermination Comn., New Brunswick, cutting 40,000 lin.ft. ditching, 10 in. wide, 15 in. deep, 2500 lin.ft., 10 in. wide, 30 in. deep in Salt Marshes of Ocean Co. also 130,000 lin.ft., 30 in. deep, Cape May Co. (Cape May). T. J. Headley, executive officer.

Ia., Emmetsburg—Drainage—Until Aug. 26, by W. F. Eagon, aud. Palo Alto Co., for drainage work in Dist. No. 41, involving 111,512 cu.yd. earth excav. and 14,355 lin.ft. 6-20 lin.ft. tile. About $100,000. G. R. Campbell, Emmetsburg, engr.

Ia., Ft. Dodge—Drainage—Until Sept. 5 by M. N. Osmundson, engr., Ft. Dodge, for drainage work, involving 86,000 cu.yd. earth excav., 46 intakes, etc., in Webster and Humboldt Counties. About $87,161.

Minn., Redwood Falls—Drainage—L. P. Larson, co. aud., receiving bids building Ditch No. 24, Sec. 11, Branches 26 to 31, involving 1000 ft. 20 in. tile, 2900 ft. 18 in., 3500 ft. 16 in., 1200 ft. 15 in., 3400 ft. 14 in., 4300 ft. 12 in., 10,800 ft. 10 in., 6800 ft. 8 in., 1600 ft. 7 in., 3700 ft. 6 in. tile, 28 sewer pipe inlets, cost, $14,057; Sect. 9, Branches 12 to 24, 2000 ft. 22 in. tile, 2000 ft., 20 in., 1400 ft. 18 in., 4100 ft. 16 in., 3000 ft. 14 in., 12,100 ft. 12 in., 10,900 ft. 10 in., 12,100 ft. 8 in., 4650 ft. 7 in., 2700 ft. 6 in. tile, 42 sewer pipe inlets with c.i. grates and 1 bulkhead, $19,438; Sect. 10, Branches 25A to 25M, 500 ft. 22 in. tile, 1400 ft. 20 in., 3900 ft. 14 in., 7200 ft. 12 in., 10,600 ft. 10 in., 800 ft. No. 2 18 in. sewer pipe with cement joints, 36 sewer pipe inlets, $17,527. F. H. Anthony, Morgan, engr.

Minn., Tower—Dredging—Until Sept. 22, by W. H. Borgen, aud. St. Louis Co., (Duluth, dredging 5000 lin. ft. channel to depth of 8 ft. below water line near Tow Rivers, involving 5000 lin.ft. pile protection and 27,911 cu.yd. excav. Former bids rejected. Noted July 31.

PRICES AND CONTRACTS AWARDED

(★Indicates award of contract)

★**N. Y., Brooklyn**—Dredging—E. Riegelmann, boro. pres., let contract dredging Wallabout Canal from Hewes St. to point 1500 ft. north of Hewes St., to New Jersey Shipbuilding & Dredging Co., 66 Orchard St. About $18,810. Noted Aug. 7.

Industrial Works

PROPOSED WORK

Mass., Springfield—A. Freedman, 27 Church St. soon receives bids building 1 story, 70 x 107 ft., brick and concrete garage, rein.-con. flooring, concrete foundation, on Liberty St. About $25,000. Private plans.

Mass., Worcester—E. T. Chapin, archt., State Mutual Bldg., soon receives bids building 1 story, 55 x 120 ft., brick and concrete garage, rein.-con. flooring, concrete foundation, on Pleasant St., for F. W. Lewis, 384 Pleasant St. About $30,000.

R. I., Providence—D. M. Watkins Co., 95 Pine St., plans to build 2 story, 100 x 125 ft. brick and mill construction factory, concrete foundation, on Pine and Foster Sts. About $70,000. W. R. Walker & Son, 17 Custom House St., archts.

R. I., Woonsocket—**French Worsted** Co., Hamlet Ave., soon lets contract building 1 and 2 story, 46 x 249 ft., brick and mill construction addition to wool sorting plant, concrete foundation. About $50,000. W. F. Fontaine, 285 Main St., archt.

Industrial Works (Continued)

Conn., East Hartford—Safety Ladder Co., 200 Tolland St., having plans prepared for 2 story factory and storage shed. About $25,000. Private plans.

Conn., Hartford—Boring & Tilton, archts. and engrs., 52 Vanderbilt Ave., New York City, receive bids about Aug. 27, building 4 story, 58 x 112 ft., rein.-con. and steel addition to factory, rein.-con. flooring, concrete foundation, for Whitney Mfg. Co., Bartholomew Ave.

Conn., New Haven—New Haven Stove Repair Co., 488 State St., soon receives bids building 1 story, 60 x 105 ft. brick and steel garage, rein.-con. flooring, concrete foundation, on State St. About $25,000. J. Weinstein, 6 Church St., archt.

Conn., New Haven—H. Puddicombe & Co., 87 Orange St., plan to build 1 story, 44 x 88 ft. brick, steel and concrete warehouse, rein.-con. flooring, concrete foundation, on Henry and County Sts. About $28,000. C. E. Hubbell, 320 5th Ave., New York City, archt.

Conn., Plainville—W. J. Cahill Co., 19 North George St., Meriden, plans to build brick warehouse on Whitney St., here. About $40,000. Architect not selected.

Conn., Storrs (Eagleville P. O.)—Connecticut Agricultural College plans to build new dairy barns and dormitory to replace ones recently destroyed by fire. About $150,000. Engineer not selected.

Conn., Windsor Locks—Greenwood & Noerr, archts. and engrs., 847 Main St., Hartford, soon let contract building 5 story, 55 x 100 ft., rein.-con. addition to mill, concrete foundation, for C. H. Dexter & Son, Inc., Windsor Locks. About $100,000.

N. Y., Binghamton—Kroehler Mfg. Co., Frederick St., plans to build 4 story, 100 x 150 ft. brick factory. Cost between $125,000 and $150,000.

N. Y., Dunkirk—Amer. Locomotive Wks., North Jay St., Schenectady, soon receives bids building 1 story, 70 x 244 ft. brick, rein-con. and steel shop, concrete foundation. About $70,000. Private plans.

N. Y., Geneva—O'Malley Motor Co. plans to build 3 story, 50 x 100 ft., brick garage, machine shop and service station, on Canal and Exchange Sts. About $40,000. Address P. O'Malley, Geneva.

N. Y., Long Island City—W. C. Van Brunt Iron Wks., 14th Ave., plans to build 300 x 310 ft. rein.-con. and steel factory, concrete foundation, on Borden Ave., Marsh and Fox Sts. Architect not selected.

N. Y., New York—F. Alberti, 186 Bleecker St., having plans prepared by F. E. Vitolo, archt. and engr., 56 West 45th St., for 1 story, 59 x 83 ft., brick and steel garage, rein.-con. flooring, concrete foundation, at 68 7th Ave. About $30,000.

N. Y., New York—Bronx Consumers Ice Co., having plans prepared by M. Hansle, archt. and engr., 3307 3rd Ave., for altering 1 and 2 story, 146 x 155 ft. ice plant, brick and steel, on Devoe Ave. and 180th St. About $60,000.

N. Y., New York—C. Cory Co., 290 Hudson St., having plans prepared by R. C. Cory, archt. and engr., 39 Cortlandt St., for 6 story, 75 x 150 ft., brick and rein.-con. factory, rein.-con. flooring, concrete foundation. About $200,000.

N. Y New York—D. Golden, 150 Bway., having plans prepared by P. J. Murray, archt., 141 East 40th St., for 4 story, 100 x 100 ft. brick and steel service station, brick foundation, at 229 West 60th St. About $80,000.

N. Y., New York—Swift & Co., 32 10th Ave., soon let contract building 10 story rein.-con. and steel refrigerating plant, rein.-con. flooring, concrete foundation, on West 14th St. About $1,000,000. Private plans. Noted July 31.

N. Y., Poughkeepsie—O. Wolpert, archt. and engr., 63 Park Ave., New York City, soon lets contract building 1 story, 80 x 140 ft. brick and steel factory, rein.-con. flooring, concrete foundation, on Fulton St., here. About $50,000. Owner's name withheld.

N. Y., Syracuse—Dyneto Electric Co., Wolf and Park Sts., plans to build 1 story, 70 x 200 ft. plant. About $50,000. Architect not selected.

N. J., Bayonne—See "Buildings."

N. J., Bloomfield—N. J. Convery Co., archts., 9 Clinton St., Newark, soon lets contract building 2 story, 80 x 96 ft., brick and mill construction factory, on Llewellyn Ave., here, for J. Brocki & Co., 8 Railroad Ave., Newark. About $30,000.

N. J., East Orange—Ward Baking Co., Southern Blvd., New York City, having plans prepared by C. B. Comstock, archt. and engr., 110 West 40th St., New York City, for concrete, brick and steel addition to bakery, concrete foundation, here. About $100,000.

N. J., North Bergen—J. A. Migel, Inc., 442 4th Ave., New York City, soon lets contract building rein.-con. and steel silk mill on Hudson Blvd. About $500,000. D. Seabury, 12 East Ave., Pawtucket, R. I., archt.

N. J., Trenton—Belle-Meade Sweets Co., Prospect St., plans to build 1 story, 40 x 200 ft. addition to factory. About $40,000. W. W. Slack & Sons, St. Regis Bldg., archts.

Pa., Phila.—Hess-Bright Co., Front and Erie Sts., plans to build 2 story, 42 x 105 ft., rein.-con. and brick factory.

Pa., Pittsburgh—S. A. Maxwell & Co., Pittsburgh, having plans prepared by Hunting-Davis Co., archts. and engrs., Century Bldg., for 9 story, 52 x 88 ft. rein.-con., wholesale wall paper house, concrete foundation, on Isabella and Sandusky Sts.

Pa., Shamokin—W. A. Mullen having plans prepared by W. H. Lee, archt., 32 South 17th St., Phila., for 2 story, 41 x 50 ft., brick and timber factory.

Md., Baltimore—McCormick & Co., McCormick Blk., Pratt St. and Market Pl., acquired site on Light, Barre and Charles Sts., and plan to build warehouse. About $80,000.

Md., Baltimore—Ottenheimer Bros., 413 North Howard St., acquired site on Milton Ave., Chase St. and Pennsylvania R.R. and plans to build factory. About $150,000.

Va., Richmond—Tower—Binford Electric Co., 5 Governor St., and A. F. Hunt, archt., 1107 East Main St., soon let contract building 2 story, 90 x 116 ft. warehouse and office, on 4th and Cary Sts. About $50,000.

O., Cleveland—Brown Fence & Wire Co., 6532 Juniata Ave., plans to build 3 story, rein.-con., steel and brick warehouse, on 100 x 180 ft. site. About $125,000. Architect not selected.

O., Cleveland—M. S. Kohn, 991 Blvd., plans to build 4 story, 75 x 235 ft.; rein.-con., steel and brick garage and theatre, at 3910 Lorain Ave. About $150,000. Architect not selected.

O., Cleveland—S. Machecek, East 91st St. and Perkins Ave., plans to build 2 story, 75 x 100 ft., steel and brick factory. About $30,000. Architect not selected.

O., Cleveland—Martin Baking Co., 3419 Carnegie Ave., preparing plans for 4 story, 100 x 130 ft., rein.-con., steel and brick addition. About $50,000.

O., Cleveland—W. M. Pattison Co., 777 Rockwell Ave., having plans prepared by Osborn Eng. Co., engrs., 2848 Prospect Ave., for 4 story, 161 x 192 ft., rein.-con., steel and brick addition to factory, at 9205 Detroit Ave. About $100,000.

O., Cleveland—F. Riley, Williamson Bldg., plans to build 2 story, 89 x 205 ft., rein.-con., steel and brick garage, at 8812 Carnegie Ave. About $60,000. Architect not selected.

O., Cleveland—Standard Equipment Co., West 106th St. and Lorain Ave., plans to build 2 story, 75 x 100 ft., concrete and brick addition to factory, on West 110th St. and Lorain Ave. About $25,000. Architect not selected.

O., Cleveland—F. B. Stearns Motor Co., Euclid Ave. and Lakeview Rd., plans to build 4 story, 200 x 400 ft., rein.-con., steel and brick addition to factory on Lakeview Rd. About $300,000. Architect not selected.

O., Cleveland—Ward Baking Co., Southern Blvd., New York City, having plans prepared by C. B. Comstock, archt. and engr., 110 West 40th St., New York City, for bakery, concrete and steel, rein.-con. flooring, concrete foundation, on Superior St., here. About $600,000.

O., Cleveland—G. W. Worder Co., 6530 Carnegie Ave., preparing plans to build 2 story, 47 x 120 ft. steel and brick addition to factory. About $25,000.

O., Columbus—Carroll-Thompson Co., 539 East Long St., plans to build 3 story, 50 x 150 ft., concrete and brick garage and salesroom, on East Long St. About $75,000. L. D. Matthews, 500 South Central Ave., archt.

O., Dayton—Hubbell & Williamson, 926 Reibold Bldg., soon receive bids building 2 story, 40 x 125 ft., rein.-con. and brick garage and salesroom, rein.-con. flooring, concrete foundation, at 109 South Perry St. About $30,000. Private plans.

O., Dayton—Natl. Cash Register Co., Main and K Sts., soon receives bids building 5 story, 60 x 500 ft., rein.-con. and brick factory, rein.-con. flooring, concrete foundation, on South Main St. About $1,000,000. Private plans.

O., Dayton—Republic Dayton Motor Sales Co., 132 East 2nd St., plans to build 1 story, 65 x 200 ft., rein.-con. and brick garage and salesroom, rein.-con. flooring, concrete foundation, on Lehman St., near Main St. About $75,000. Architect not selected.

O., New Lexington—R. G. Thackee soon lets contract building 3 story, 64 x 124 ft., fireproof warehouse. About $60,000. O. C. Darst, Brunson Bldg., Columbus, archt.

O., Piqua—Atlas Underwear Co. plans to build 4 story, 80 x 140 ft., rein.-con. and brick factory, rein.-con. flooring, concrete foundation. About $125,000. Architect not selected.

O., Toledo—Larrowe Milling Co., Rossford, plans to build one 85 x 100 ft., one 85 x 320 ft., and one 85 x 400 ft., rein.-con. and steel warehouses, all 1 story, on East Bway., here. About $500,000.

O., Toledo—Refrigeration Eng. Co., 301 Nasby Bldg., plans to build factory. About $500,000. F. B. Riley, pres. Architect not selected.

Mich., Bay City—J. P. Beck, 1125 Janes St., Saginaw, plans to build 3 story, 100 x 100 ft., rein.-con., brick and steel garage, rein.-con. flooring, concrete foundation, on Washington St., here. About $75,000. Architect not selected.

Mich., Detroit—General Ice Co., 225 Grand River Ave., having plans prepared by D. R. Wells, archt., 435 Woodward Ave., building 2 story, 90 x 131 ft. brick and steel wagon shop and barns, wood and rein.-con. flooring, concrete foundation, on Crane Ave., near Mack Ave. About $50,000.

Mich., Greenville—Moore Plow & Implement Co. having plans prepared by F. P. Allen & Son, engrs., Grand Rapids, building 1 story, 50 x 80 ft. brick and steel foundry, concrete foundation.

Mich., Highland Park (Detroit P. O.)—Maxwell Motor Co., Oakland Ave., soon lets contract building 1 and 2 story, 315 x 557 ft., rein.-con. and steel factory, rein.-con. flooring, concrete foundation.

Mich., Kalamazoo—Western Board & Paper Co. had plans prepared by Billingham & Cobb, archts., Kalamazoo, for 2 story, 28 x 60 ft., rein.-con. storage building, rein.-con. flooring, concrete foundation. Noted June 26.

Ill., Chicago—Agar Provision Co., 310 North Green St., plans to build 5 story, 125 x 190 ft. factory, on Fulton and Green Sts. About $400,000. Architect not announced.

Ill., Chicago—Buckley Dement & Co., 632 Sherman St., having preliminary plans prepared by R. S. Smith, archt., 111 West Monroe St., for 6 story, 100 x 120 ft. concrete and steel printing and mailing plant, rein.-con. flooring, concrete foundation, on Jackson Blvd. and Throop St. About $300,000.

Ill., Chicago—H. Channon Co., 150 North Market St., having plans prepared by A. S. Alschuler, archt., 28 East Jackson St., for 7 story, 120 x 180 ft., rein.-con. and brick warehouse, rein.-con. flooring, concrete foundation, on Randolph and Market Sts. About $400,000.

Ill., Chicago—E. Edelman & Co., 351 East Ohio St., having plans prepared by A. S. Alschuler, archt., 28 East Jackson St., for factory, on Crawford and Shubert Aves. About $250,000.

Ill., Chicago—Wilson-Jones Loose Leaf Co., 3021 Carrol Ave., plans to build 2 story, 250 x 400 ft. factory, on Ohio St. and Spaulding Ave. About $400,000. Architect not announced.

Wis., Barton—J. M. Fellenz Co., c/o J. M. Fellenz, Menomonee Falls, plans to build 2 story, 80 x 128 ft. brick and steel factory, concrete foundation, on Main St., here. Cost between $30,000 and $40,000. Architect not selected

Industrial Works (Continued)

Minn., Minneapolis—Long, Lamoreaux & Long, archts., Andrus Bldg., soon lets contract building 4 story 84 x 105 ft., rein.-con. and hollow tile warehouse, on 9th Ave., S and 3rd St., for Berman Bros., 227 North 1st St. About $75,000. Noted Aug. 7.

Kan., Chanute—See "Waterworks."

Kan., Salina—Webber Milling Corp. having plans prepared by Lehrack Contg. & Eng. Co., engrs., 725 Gloyd Bldg., Kansas City, Mo., building rein.-con. grain elevator. About $400,000. J. Webber, pres.

Mo., St. Louis—Locust St. Annex Realty Co., 1519 Locust St. plans to build 8 story warehouse. About $300,000. Architect not selected.

Mo., St. Louis—H. J. Wise, engr., Post-Dispatch Bldg., soon receives bids building 2 story, 90 x 252 ft., brick, concrete and steel addition to laundry, rein.-con. flooring, rock and concrete foundation, for A. J. Fuerbacher, c/o Superior Laundry Co., 1745 South 18th St. About $80,000. E. Hess, 3226 Magnolia Ave., archt.

Tex., Waco—Texas Cordage Mill Co., plans to build plant. About $125,000.

Colo., Denver—Denver Post Printing & Publishing Co., 1544 Champa St., soon receives bids building 4 story, 50 x 125 ft., rein.-con., steel and brick, publishing house, rein.-con. flooring, concrete foundation, on Champa St. between 15th and 16th Sts. About $150,000. H. W. J. Edbrooke, Tabor Opera House Bldg., archt.

Cal., Huntington Park—Southern California Iron & Steel Co., 417 Mateo St., Los Angeles, plans to build plant here to consist of open hearth mill, nut and rivet shop, 2 warehouses, office, forge shop, machine shop and galvanizing plant, all concrete, steel and corrugated iron. Cost, including site and equipment, $1,750,000. Architect not selected.

Cal., Long Beach—Long Beach Sash & Door Co. plans to build plant on 250 x 330 ft. site on Anaheim St. and Euclid Ave. About $100,000.

Cal., Los Angeles—Barker Bros., 726 South Bway., having plans prepared by W. J. Saunders, archt., 229 Laughlin Bldg., for 3 story, 50 x 130 ft., rein.-con. warehouse on Hewitt St., near Palmetto St.

Cal., Los Angeles—Bd. Pub. Serv. plans to build power plant on South Fork of Kern River, cost $10,000,000. E. F. Scattergood, 645 South Olive St., ch. electrical engr.; also extend Los Angeles aqueduct and build feeders in Owen's River Valley to increase supply. W. Mulholland, city engr.

Cal., Los Angeles—Madsen Iron Wks., 16th St. and Santa Fe Ave., purchased five-acre site in Vernon industrial dist. and plans to build new plant.

Cal., Los Angeles—Matthews Paint Co., 219 South Los Angeles St., plans to build 2 story brick factory and warehouse on Ave. 26 and San Fernando Rd. About $75,000. Architect not selected.

Cal., Martinez—Standard Oil Co., Bush and Sansome Sts., San Francisco, applied to City Trustees for lease on waterfront on which to build distributing plant. Cost between $100,000 and $150,000.

Cal., Pasadena—Warrenlite Co., Davenport, Ia., leased 318 x 515 ft. site on Marengo Ave. and Wallis St., here, and plans to build plant. About $100,000. Architect not selected.

Cal., Torrance—Torrance Window Glass Co. plans to reconstruct factory. Plans include several frame, galvanized iron and brick buildings. About $25,000. Architect not selected.

Ont., Brantford—Brantford Piano Case Co., Alice St., plans to build 3 story, 60 x 80 ft. concrete and brick factory addition to present plant, concrete foundation. About $80,000. Engineer not selected.

Ont., Chatham—Gray-Dort Motors Co., Ltd., Colborne St., having plans prepared by Daniels & Vickery, archts., Chatham, for 3 story, 60 x 120 ft. concrete, steel and brick factory, concrete foundation. About $100,000.

BIDS DESIRED

Conn., Bridgeport—Bridgeport Brass Co., Grand St., receiving bids building 1 story, 150 x 220 ft., rein.-con. brick and steel addition to shop, rein.-con. flooring, concrete foundation. About $150,000. H. M. Lane Co., 701 Owen Bldg., Detroit, Mich., engrs. Noted Aug. 7.

Pa., Phila.—Until Aug 23, by H. Trumbauer, archt., Land Title Bldg., constructing 2 story, 36 x 75 ft., concrete and brick factory, for Ridpath & Potter, Fox and Ontario Sts.

O., Akron—Akron Bakery Co., 178 South Forge St., receiving bids building 2 story, 69 x 132 ft., rein.-con. and steel addition. About $80,000. McCormick Co., Century Bldg., Pittsburgh, archts. Noted Aug. 7.

Mich., Allegan—Overton Creamery Co. receiving bids building creamery and dairy to include 40 x 50 ft. power house, rein.-con. and steel, rein.-con. flooring, concrete foundation. About $100,000. McCormick Co., Century Bldg., Pittsburgh, Pa., archts. Noted July 31.

Mich., Detroit—Smith, Hinchman & Grylls, archts., Washington Arcade, receiving bids building 2 story, 127 x 144 ft., rein.-con. factory, rein.-con. flooring, concrete foundation, on Russell St. and Harper Ave., for Amer. Blower Co., 1400 Russell St.

Ill., Chicago—A. M. Harroun, 5501 Cornell Ave., receiving bids for 1 story, 100 x 150 ft., brick and timber garage, brick foundation, on Lake Park Ave. and 55th St. About $25,000. L. E. Smith, 5501 Prairie Ave., archt.

Ill., Chicago—Z. E. Smith, archt., 5501 Prairie Ave., receiving bids for 4 story, 60 x 125 ft., rein.-con. and brick factory and office building, rein.-con. flooring, concrete foundation, on State St. and 36th Pl., for Overton Hygienic Mfg. Co., 5200 South Wabash Ave. About $125,000.

Ia., Spirit Lake—Until Aug. 29, by city building waterworks extensions. About $50,000. C. H. Currie, Webster City, engr.

Minn., Hastings—Until Sept. 1, by State Bd. Control, Capital, St. Paul, building 1 story, 45 x 140 ft. rein.-con. and brick, power plant. About $125,000. C. H. Johnston, Capital Bank Bldg., St. Paul, engr.

BRIDGE—HUNTLEY, MONT.

Bids were received by State Highway Commission, Helena, for construction of bridge over Yellowstone River, from (A) Security Bridge Co., 502 North 32nd St., Billings, (awarded contract); (B) Illinois Steel Bridge Co., 208 South La Salle St., Chicago, (C) Burke & Co., Omaha, Neb. The unit bids were as follows:

	A	B	C
1,070 cu.yd. class "B" concrete	$29.82	$28.60	$37.85
765,000 lb. structural steel erected	.087	.0932	.089
10,500 lb. reinforcing steel in place	.09	.09	.10
90,000 ft.b.m. lumber in floor	64.00	58.00	59.00
10,215 cu.yd. roadway embankment from channel excavation	.70	1.25	1.50
13,876 cu.yd. levee embankment from channel excavation	1.05	1.50	1.65
10,215 cu.yd. roadway embankment borrow	.50	.80	.80
13,876 cu.yd. levee embankment borrow	.60	1.00	.95
24,091 cu.yd. channel change excavation	.40	.65	.80
1,679 cu.yd. bank sloping	.40	.60	.60
172 sq.yd. 6-in. concrete slabs	2.75	2.50	3.00
2,579 sq.yd. 4-in. concrete slabs	2.00	1.80	2.60
1,776 sq.yd. 4-in. concrete mattress	2.65	3.00	3.00
2,903 cu.yd. rip rap in wire containers	5.00	4.75	5.50
2072 sq.yd. brush mattress	.70	1.00	.80
12 cu.yd. class "C" concrete	27.50	25.00	30.00
360 lin.ft. piling in footing	1.00	1.00	.90
320 lin.ft. piling in jetty	1.00	1.00	.90
2,166 cu.yd. random rip rap in slopes	4.00	5.00	4.50
1,881 cu.yd. hand laid rip rap placed	1.80	2.00	2.25
3,416 cu.yd. jetties	2.75	2.75	3.00
666 lin.ft. ½-in. galvanized wire cable	.03	.08	.09
19,314 lin.ft. ⅜-in. galvanized wire cable	.07	.06	.07
150 sq.yd. 4-in. wire mesh delivered	.90	.70	.70
Extended totals	$163,341	$181,410	$195,242

PIER—PHILADELPHIA, PA.

Bids were received by the Department of Wharves, Docks & Ferries (lowest 3), Bourse Bldg., Aug. 5, for the construction, with appurtenant work, of the Schuylkill River Bulkhead, west side, south of Penrose Ferry Bridge, from (A) McLean Contg. Co., Fidelity Bldg., Baltimore, Md. (awarded contract); (B) Snare & Triest, Penn Bldg.; (C) E. H. Vare, 1120 Race St. The unit bids were as follows:

	A	B	C
Entire work (yellow pine), (lump sum)	$243,000	$256,300	$277,000
Entire work (fir), (lump sum)	236,000	250,600	277,000
103,000 cu.yd. trench dredging	.28	.30	.35
2,900 tons rip rap in front of sheet piling	4.35	3.40	3.70
600 tons rip rap facing of embankment	4.35	6.00	4.00
16,000 tons cobble fill in front of sheet piling	1.45	1.20	1.34
6,000 tons cobble fill in back of sheet piling	1.45	1.20	1.38
25,000 cu.yd. first class fill	.75	.80	.81
1,900 cu.yd. second class fill	.75	1.60	1.15
1,900 cu.yd. dredged fill	.25	1.70	.67
10 days dredging plant—day of 10 hours	300.00	250.00	275.00
10 days dredging plant—day of 20 hours	550.00	500.00	550.00
1,000 hours mechanics	1.50	1.20	1.00
1,000 hours laborers	.75	.90	.60
Total items 2 to 13, inclusive	$107,365	$106,630	$112,458
Extended grand totals	$343,365	$357,230	$389,458
Unit prices for additional work:			
Vertical piles, per pile	$30.00	$35.00	$40.00
Inclined piles, per pile	33.00	40.00	50.00
Pile shoes, per shoe	4.00	2.00	7.50
Sheet piling, dove tail type, 38 ft. long, per h. lin.ft.	55.00	45.00	60.00
New sawed yellow pine timber, M.ft.b.m.	120.00	125.00	150.00
New sawed Douglas fir timber, M.ft.b.m.	115.00	135.00	150.00
Bolts, nuts, washers, spikes, etc., per lb.	.08	.06	.10
No. 2 concrete, per cu.yd.	15.00	18.00	16.00
Cast steel bollards, each	145.00	150.00	20.00
Corner protection shapes, per lin.ft.	.18	.25	.25

PRICES AND CONTRACTS AWARDED

(★Indicates award of contract)

★Mass., Clinton—L. S. Gottlieb, archt. 101 Park Ave., New York City, let contract to Genl. Bldg. Co., Boylston St., Boston, building 4 story rein.-con., steel and brick mill, rein.-con. flooring, concrete foundation, for Roubaix Mills, 792 Main St. Noted Aug. 7.

★Mass., Mittineague (West Springfield P. O.)—Strathmore Paper Co. let contract building 4 story, 78 x 98 ft., brick and mill construction addition to factory, concrete foundation, to D. O'Connell's Sons, 480 Hampden St., Holyoke. About $70,000. Noted July 31.

★Mass., South Boston (Boston P. O.)—Boston Wharf Co., 195 A St., let contract building 7 story, 90 x 167 ft., brick and concrete storage plant, concrete foundation, to J. M. and C. J. Buckley Co., 128 Vernon St., Worcester. About $200,000.

★Mass., Worcester—W. H. Hill Envelope Co., 48 Water St., let contract building 5 story, 64 x 75 ft., brick and rein.-con. factory, concrete flooring and foundation, to J. J. Power, 15 Ashland St. About $45,000.

Industrial Works (Continued)

★**Mass., Worcester**—Jefferson Mfg. Co., Grove St., let contract building 1 story, 60 x 149 ft., brick, concrete and steel weave shed, rein.-con. flooring, concrete foundation, to J. J. Roberts, 4 Wall St. About $30,000.

★**Mass., Worcester**—Lockwood, Greene & Co., engrs., 93 Federal St., Boston, let contract to Aberthaw Constr. Co., 27 School St., Boston, building 1 story, 51 x 85 ft., rein.-con. and steel storage plant, rein.-con. flooring, concrete foundation, on Grand St., for Crompton & Knowles Loom Wks., Grand St. About $50,000. Noted July 24.

★**Mass., Worcester**—Wyman & Gordon Co., 30 Bradley St., let contract building 1 story, 30 x 220 ft. dye house, brick, concrete and steel, rein.-con. flooring, concrete foundation, on Madison, Gold and Bradley Sts., to E. J. Cross Co., 82 Foster St. About $30,000.

★**R. I., Woonsocket** — French Worsted Co., Hamlet Ave., let contract building 2 story, 61 x 132 ft. brick and steel dye house, concrete foundation, to J. C. Bouvier Co., 189 Sayles St. About $32,000.

Conn., Bridgeport—H. Hubbell, Inc., State St. and Bostwick Ave., let contract building 1 story, 82 x 140 ft., brick and concrete addition to storehouse, rein.-con. flooring, concrete foundation, on Lesbia St., to Van Stone & Van Stone, 328 Park Ave. About $25,000.

★**Conn., Bridgeport**—Hunter & Havens, 233 Middle St., let contract building 1 story, 65 x 215 ft., brick, steel and concrete warehouse and 2 story, 55 x 65 ft., brick and concrete office, rein.-con. flooring, concrete foundation, on Water St., to T. J. Pardy Constr. Co., Seaview Ave. About $60,000.

★**Conn., East Norwalk** (South Norwalk P. O.)—Goldstein Bros., East Ave. and Winfield St., let contract building 2 story, 50 x 101 ft. ,rein.-con. factory, rein.-con. flooring, concrete foundation, to Austin Co., 217 Bway., New York City. About $30,000.

★**Conn., New Haven**—M. Massari, 142 Bradley St., will build 1 story, 55 x 86 ft. brick and concrete garage, with two 16 x 48 ft. ells, rein.-con. flooring, concrete foundation, on Bradley St. About $25,000. Work will be done by day labor. Noted July 3.

★**Conn., Stamford**—Alladins Rock Realty Co., 111 Manhattan St., New York City, let contract building rein.-con. plant, on Keeler's Ave., here, to Turner Constr. Co., 244 Madison Ave., New York City. About $90,000.

★**N. Y., Brooklyn**—Coney Island Bldg. Corp., c/o L. Gold, 44 Court St., will build 1 story, 75 x 135 ft. rein.-con. and steel garage at 954 Fulton St. About $23,000. Work will be done by day labor.

★**N. Y., Brooklyn**—L. Gold, 44 Court St., will build 1 story, 100 x 100 ft. brick and steel garage, rein.-con. flooring, concrete foundation, on Ave. Q and East 9th St. About $25,000. Work will be done by day labor.

★**N. Y., Brooklyn**—L. Gold, 44 Court St., will build 2 story, 120 x 180 ft. brick and steel garage, rein.-con. flooring, concrete foundation, on Atlantic Ave. near Franklin Ave. About $35,000. Work will be done by day labor.

★**N. Y., Brooklyn**—S. Greenstein, 206 West 29th St., New York City, will build 1 and 2 story, brick and steel garage, rein.-con. flooring, brick foundation, on Flushing Ave., here, to cover 16,000 sq.ft. floor space. Work will be done by day labor.

★**N. Y., Brooklyn**—E. A. Laboratory, Inc., 80 Bway., let contract building 2 story, 100 x 100 ft. brick and steel factory, concrete foundation, on Spencer St. and Myrtle Ave., to Barney-Ahlers Constr. Co., 110 West 40th St., New York City. About $95,000.

★**N. Y., Brooklyn** — Magid, Katzman & Strober, 58 Boerum St., will build 1 story, 100 x 185 ft. brick and steel warehouse, garage and workshop, rein.-con. flooring, concrete foundation, on Jefferson St., Wykoff and Flushing Ave. About $120,000. Work will be done by day labor. Noted July 31.

★**N. Y., Brooklyn**—Smith Builders, 142 East 43rd St., will build 1 story, 70 x 130 ft. brick and steel garage, brick foundation, on 4th Ave. and 62nd St. About $40,000. Work will be done by day labor.

★**N. Y., Long Island City**—L. Gold, 44 Court St., Brooklyn, will build two garages, one 5 story, 100 x 175 ft. brick, stee' and rein.-con., on 7th Ave. and Pierce Ave., and one 2 story, 100 x 150 ft., rein.-con. and steel, rein.-con. flooring, concrete foundation, on 8th St. and Jackson Ave.; also 1 story, 95 x 235 ft. brick and steel factory, on Harris and Van Alst Aves. Cost, $220,000, $50,000 and $150,000 respectively. Work will be done by day labor.

★**N. Y., Long Island City**—Wappler Electric Co., Harris Ave., let contract building 2 story, 175 x 255 ft. brick, rein.-con. and steel factory, rein.-con. flooring, concrete foundation, on Van Alst and Harris Aves., to Turner Constr. Co., 244 Madison Ave., New York City.

★**N. Y., New York**—Kelley-Springfield Tire Co., 200 West 57th St., let contract building 4 story, 100 x 115 ft. warehouse and 1 story, 60 x 100 ft. service station, brick and steel, rein.-con. flooring, brick foundation, on 10th Ave. and 54th St., to H. H. Oddie, 12 East 44th St. About $100,000. Noted Aug. 7.

★**N. Y., New York**—United Dressed Beef Co., 32 10th Ave., let contract to B. Sinek, 120 Bway., building 5 story, 75 x 103 ft. cattle pen, and 7 story, irregular shaped packing plant, rein.-con. and steel, rein.-con. flooring, concrete foundation, on 1st Ave. and 44th St. About $175,000 each. Noted July 31.

★**N. Y., Syracuse**—J. A. Heffernan, 721 South Salina St., will build 2 and 3 story, 56 x 99 ft. steel garage, rein.-con. flooring, concrete foundation, on East Genesee St. About $50,000. Will be done by day labor.

★**N. Y., Syracuse**—Merrell-Soule Co., North Franklin and Plum Sts., let contract building 5 story, 61 x 90 ft. cold storage plant, concrete, rein.-con. flooring, concrete foundation, to Turner Constr. Co., 244 Madison Ave., New York City. Cost between $80,000 and $90,000. Noted Aug. 14.

★**N. J., Jersey City**—See "Buildings."

★**N. J., Newark**—O. Heineman Phonograph Co., Wilson Ave., let contract building 80 x 120 ft., rein.-con. addition to plant, to Amer. Concrete Co., 27 Clinton St. About $140,000.

★**N. J., Newark**—J. E. Lehman Co., 197 Grand St., New York City, let contract building 112 x 160 ft. machine shop and factory, to Amer. Concrete Steel Co., 27 Clinton St. About $68,000.

★**N. J., Newark** — New Toy Co., 143 Bleecker St., let contract building 2 story, 60 x 100 ft., rein.-con. factory, at 219 Central Ave., to Irvington Lumber & Door Co., 738 Broad St. About $108,000.

★**N. J., Trenton**—T. Maddock & Sons, Perry and Carroll Sts., let contract constructing 3½ story, 30 x 154 ft. addition to pottery plant and 1 story, 40 x 154 ft. kiln building, both brick and steel, on Perry St., to L. Lawton & Son, Broad St. Bank Bldg. About $50,000.

★**Pa., Bangor**—Zipkes, Wolff & Kudoff, archts., 25 West 42nd St., New York City, let contract building 2½ story, 50 x 100 ft., brick and steel factory, rein.-con. flooring, brick foundation, here, to J. Steel, Bangor. About $80,000. Owner's name withheld. Noted June 26.

★**Pa., McKee's Rocks**—Hankey Baking Co. let contract building 2 story, 60 x 100 ft. bakery, steel and brick, to C. Nauman, McKee's Rocks. About $35,000. Noted July 31.

★**Pa., Phila.**—L. H. Gilmer Co., Cottman and Keystone Sts., let contract building 2 story, 57 x 183 ft., concrete, steel and slow-burning construction addition to factory, to H. J. Holman, 34 South 17th St. About $50,000.

★**Pa., Phila.**—J. Miller & Sons Co., 16th and Reed Sts., let contract building 3 and 5 story, 90 x 118 ft., rein.-con. and brick factory, to Wark Co., 1737 Filbert St. Noted Aug. 7.

★**Pa., Phila.**—A. Schoenhut Co., Adams and Sepvivo Sts., let contract building 2 story, 50 x 130 ft., concrete and brick boiler house and factory, on Amber and Venango Sts., to P. Haibach, 1261 North 26th St.

★**Pa., Phila.**—Sharples Specialty Co., 23rd and Westmoreland Sts., let contract building 1 and 2 story, 75 x 180 ft., rein.-con., steel and brick factory, to Barclay Williams, 1713 Sansom St. About $65,000.

★**Pa., Pittsburgh**—California Ave. Garage Co. let contract building 1 story, 60 x 95 ft., rein.-con. garage, rein.-con. foundation on California Ave. and Challis St. to Nicola Bldg. Co., Penn and Denniston Ave. About $25,000.

★**Pa., Pittsburgh**—T. Pringle, archt., 410 Oliver Ave., let contract to Toupet, Beil & Conley, 127 North Highland St., for building 2 story, 50 x 120 ft., rein.-con. and brick garage, rein.-con. flooring, concrete foundation, on Baum Blvd., for A. W. Mellan Bldg. Co., Keystone Brick Co., lessee. About $35,000. Noted July 3.

★**Pa., Reading**—Narrow Fabric Co., Wyomissing, let contract building 5 story, 90 x 456 ft. factory, rein. con. flooring., near Phila. & Reading R.R. tracks, here, to Stone & Webster, 147 Milk St., Boston. About $500,000. Work involves 8000 cu.yd. rein.-con., 450 tons reinforcing steel, 8500 cu.yd. rock and earth excav. Noted Aug. 2.

★**O., Cleveland**—Grant Motor Car Co., East 131st St., let contract building 2 story, 63 x 262 ft., rein.-con., steel and brick addition to factory, on East 131st St. and Kirby Ave., to W. I. Thompson Co., 6110 Euclid Ave. About $75,000. Noted Aug. 7.

★**O., Dayton**—Dayton Metal Bodies Co., Pennsylvania Ave., let contract building 1 story, 90 x 200 ft., steel and brick factory, brick foundation, on Pennsylvania and Wampum Aves., to J. Lowes, Schwind Bldg., South Ludlow St. About $50,000.

★**O., Springfield**—Amer. Radiator Co., 1210 West Main St., let contract building 3 story, 65 x 110 ft., rein.-con. and brick warehouse and repair shop, rein.-con. flooring, concrete foundation, on Isabelle St., to J. W. Cowper Co., Fidelity Bldg., Buffalo, N. Y. About $25,000.

★**O., Springfield**—Hess & Lewis, West North St., let contract building 1 story, 70 x 100 ft., brick garage and salesroom, rein.-con. flooring, brick and rock foundation, to W. Poole, Springfield. About $35,000.

★**Mich., Detroit**—Gordon Pagel Co., 461 Chene St., let masonry contract building 2 story, 125 x 170 ft, brick and steel addition to bakery, rein-con flooring, concrete foundation, on Henricks and Duboise Sts., to G. D. Nutt, 632 Farwell Bldg., steel contract to Russell Wheel & Fdry. Co., Chene St.

★**Mich., Detroit**—A. Harvey's Sons Mfg. Co., 1st St., let contract building 1 and 2 story, 60 x 100 ft. concrete, steel and brick foundry, rein.-con. flooring, concrete foundation, on Bellevue Ave. and Michigan Central Ry., to Walbridge Alldinger Co., 2356 Penobscot Bldg. Noted July 31.

★**Mich., Detroit**—Morgan & Wright, Bellevue Ave., let contract building 2 additional stories to present building, 1 section 50 x 175 ft. with two 50 x 125 ft. wings, rein.-con. and steel, rein.-con. flooring, to Bryant & Detwiler Co., 2336 Dime Bank Bldg.

★**Mich., Detroit**—Packard Motor Car Co., East Grand Blvd., let contract building 4 story, 80 x 196 ft. and 80 x 201 ft. rein.-con. and brick service station, rein.-con. flooring, concrete foundation, on Woodbridge and St. Antoine Sts., to Bryant & Detwiler Co., 2336 Dime Bank Bldg.

★**Mich., Detroit** — Raseman & Freer, archts., 1302 Penobscot Bldg., let contract building 1 story, 140 x 240 ft., brick and steel factory, rein.-con. flooring, concrete foundation, on Connant St., for Swedish Crucible Steel Co., Butler St. and Grand Trunk Ry., to Russell Wheel & Fdry. Co., Beecher Ave. and Belt Line Ry.

★**Ill., Chicago**—Cook Co. Stock Co., 2325 South La Salle St., let contract to Shank Co., 30 North La Salle St., building 1 story, 600 x 1100 ft. warehouse, and 1 story 300 x 950 ft. factory, steel frame construction with brick exterior, 3 story, 100 x 120 ft. and one story, 100 x 300 ft. mill construction warehouses, 1 story, 60 x 200 ft., brick and concrete garage and repair shop, on 31st and Kedzie Aves. About $1,000,000.

★**Ill., Chicago**—G. Merz & Sons, 118 West Superior St., let contract remodeling 3 story, 78 x 125 ft., mill construction factory, to R. C. Wieboldt, 1534 Van Buren St. About $25,000.

★**Neb., Gibbon**—Gibbon Roller Mill Co. let contract building 3 story, 32 x 105 ft. rein.-con. mill, to Schrack Constr. & Eng. Co., 412 Amer. Bank Bldg., Kansas City, Mo. About $55,000.

Industrial Works (Continued)

★**Neb., Omaha**—A. Hospe, 1513 Douglas St., let contract building 6 story, 44 x 133 ft., rein.-con. warehouse, rein.-con. flooring, concrete foundation, at 109-11 South 10th St., to W. P. Deverell, 435 Exch. Bldg., $83,475.

★**Mo., Kansas City**—J. W. Jenkins & Sons Music Co., 1013 Walnut St., let contract building 7 story, 150 x 152 ft. rein.-con. and brick warehouse, rein.-con. flooring, to Bliss Bldg. Co., Kansas City. About $200,000.

★**Mo., St. Louis**—Ely & Walker Dry Goods Co., 16th and Washington Sts., let contract building 5 story, 65 x 150 ft. factory, at 1400 North 6th St., to Hartman & Schuermann, Odd Fellows' Bldg. About $500,000.

★**Mo., St. Louis**—General Motors Co., Flint, Mich., let contract building three 3 story, 200 x 750 ft., rein.-con., steel and brick factories, rein.-con. flooring, concrete foundation, on Natural Bridge Rd. and Union Blvd., here, to G. A. Fuller & Co., 175 5th Ave., New York City. About $2,000,000. Noted July 24.

★**Mo., St. Louis**—International Fur Exch., 2nd and Market Sts., let contract constructing 7 story, fur exchange and storage building, rein.-con. and steel, on 4th and Market Sts., to J. A. Godfrey & Co., Wainwright Bldg. About $500,000.

★**Mo., St. Louis**—Mississippi Valley Iron Co., 6500 South Bway., let contract building 1 story, 29 x 82 ft. engine house and 1 story, 36 x 93 ft. factory, rein.-con., steel and brick, rein.-con. flooring, concrete foundation, at 6407 Water St., to Fruin-Colnon Contrg. Co., Merchants Laclede Bldg. About $32,000.

★**Mo., St. Louis**—St. Louis Independent Packing Co., 3815 Chouteau Ave., let contract building 4 story, 97 x 145 ft., rein.-con., steel and brick warehouse, rein.-con. flooring, concrete foundation, to A. H. Haeseler Constr. Co., Wainwright Bldg. About $50,000. Work to be done on percentage basis.

★**Mo., St. Louis**—Woods Down Box Co., 12th and Mullanphy Sts., let contract building 28 x 46 ft., rein.-con., steel and brick addition to factory, rein.-con. flooring, rock foundation, at 1221 Mullanphy St., to R. H. Mathews, 4441 Laclede Ave. About $30,000.

★**Okla., Enid**—J. Morris, 2nd St. and Bway. let contract constructing 2 story, 50 x 150 ft., brick, stone and rein.-con. garage and sales building, to A. F. Stewart, 1213 State Natl. Bank Bldg., Oklahoma. About $60,000.

★**Okla., Norman**—Norman Mercantile Co. let contract building 1 story, 50 x 150 ft. wholesale house, concrete, steel and brick, rein.-con. flooring, to Kahoe & Pierson, Norman. About $150,000.

★**Okla., Oklahoma**—J. K. Wells, Amer. Natl. Bank Bldg., let contract building 2 story, 75 x 135 ft., brick, stone and rein.-con. garage at 700 Blk. North Bway., to A. F. Stewart & Co., 1213 State Natl. Bank Bldg. About $50,000.

★**Ariz., Phoenix**—See "Buildings."

★**Wash., Seattle**—Frederick-Boyd Co., Westlake and Lenora Sts., let contract building 3 story, 60 x 108 ft., concrete factory, on Westlake and Ward Sts., to Hurley-Mason Co., Lowman Bldg. About $25,000.

★**Ont., London**—C. S. Hyman & Co., Richmond St., let contract building 3 story, 80 x 100 ft., rein.-con. and brick addition to tannery, rein.-con. flooring, concrete foundation, to P. H. Secord & Son, Nelson St., Brantford. About $300,000.

★**Ont., Oshawa**—Gananoque Springs & Axel Co. let steel contract building 1 story, 80 x 200 ft., factory and office, concrete and steel, concrete foundation, to Dominion Bridge Co., Imperial Life Bldg., Toronto. About $100,000. Balance of buildings will be erected by owner.

★**Ont., Walkerville**—Smith, Hinchman & Grylls, archts., Washington Arcade Bldg., Detroit, Mich., let contract, to W. E. Wood Co., 1805 Ford Bldg., Detroit, building 2 story, 60 x 337 ft. rein.-con. and brick factory, rein.-con. flooring, concrete foundation, on Walker Rd. and Seminole St., here, for Motor Products Co., Walker Rd. Noted July 24.

MILL CREEK FLOOD CONTROL—ERIE, PA.

Bids were received by the city for completion of Sects. Nos. 3 and 4 of Mill Creek Flood Control Project, from (A) Peckham Constr. Co., Niagara Life Bldg., Buffalo, N. Y.; (B) Claiborne-Johnston & Co., Inc.; (C) Folwell-Ahlskog Co., 24th and State Sts., (awarded contract). The unit bids were as follows:

SECTION 3

	A	B	C
Taking care of water (lump sum)	$10,000.00	$10,400.00	$15,000.00
29,000 cu.yd. excavation, class "A" earth	1.80	1.90	2.00
8,400 cu.yd. excavation, class "B" earth	2.15	4.00	3.00
39,000 cu.yd. excavation, class "D" rock	3.80	2.80	3.50
9,600 cu.yd. excavation, class "E" rock	5.70	6.00	4.50
1,500 cu.yd. excavation, class "F" earth	2.40	4.00	3.40
1,200 cu.yd. excavation, class "G" rock	7.00	6.50	5.00
1,200 cu.yd. excavation, class "H" concrete masonry	4.80	5.00	5.00
1,400 cu.yd. excavation, class "J" stone and brick masonry	2.25	5.00	4.00
2,500 sq.yd. excavation, class "K" pavements	.75	2.00	2.40
17,600 cu.yd. concrete, class "A" tube	12.00	9.55	10.50
500 cu.yd. concrete, class "B" ribs, walls, etc.	13.00	20.00	25.00
500 cu.yd. concrete, class "E" rough	6.20	9.55	9.00
150 cu.yd. concrete, class "F" manholes, etc.	11.70	12.55	20.00
105 tons reinforcing steel, furnishing and placing	92.00	109.00	100.00
160 tons reinforcing steel, placing only	42.00	33.00	30.00
50 tons structural steel	204.00	150.00	200.00
17 tons iron castings	144.00	175.00	200.00
60 tons cast iron pipe	97.00	110.00	100.00
50 ft. vitrified sewer pipe, 6 in.	.30	1.00	.80
80 ft. vitrified sewer pipe, 9 in.	.50	1.00	1.50
100 ft. vitrified sewer pipe, 12 in.	.60	2.00	2.30
400 ft. vitrified sewer pipe, 15 in.	1.10	2.00	3.00
160 ft. vitrified sewer pipe, 18 in.	1.50	3.00	4.00
200 ft. vitrified sewer pipe, 24 in.	2.50	3.00	6.00
50 ft. vitrified sewer pipe, 36 in.	6.00	6.00	10.00
120 cu.yd. brick masonry	23.50	45.00	25.00
Underpinning structure No. 7 (lump sum)	4,800.00	7,300.00	6,000.00
Underpinning structure No. 8 (lump sum)	9,300.00	26,000.00	15,500.00
Underpinning structure No. 9 (lump sum)	2,000.00	1,000.00	1,100.00
Underpinning structure No. 10 (lump sum)	4,000.00	8,000.00	5,500.00
Underpinning structure No. 10A (lump sum)	350.00	1,000.00	600.00
Underpinning structure No. 14 (lump sum)	2,900.00	6,000.00	2,600.00
Underpinning structure No. 15 (lump sum)	4,800.00	10,000.00	6,000.00
Underpinning structure No. 15A (lump sum)	350.00	1,000.00	1,300.00
Underpinning structure No. 16 (lump sum)	350.00	1,000.00	700.00
Underpinning structure No. 16A (lump sum)	350.00	2,500.00	900.00
Underpinning structure No. 17 (lump sum)	4,400.00	7,500.00	7,200.00
4,100 lin.ft. tile in invert 8 in.	.65	.50	1.00
12 flop valves, 12 in. and less	60.00	50.00	75.00
10 flop valves, 15 in. to 24 in.	120.00	100.00	230.00
200 lin.ft. supporting water pipes, etc.	3.60	4.00	8.00
15 tons steel for taking care of traffic	105.00	110.00	200.00
40,000 ft. timber for taking care of traffic	96.00	110.00	150.00
28,500 bbl. Portland cement	2.60	3.00	3.00
Extended totals	$685,703	$697,448	$703,830

SECTION 4

	A	B	C
Taking care of water (lump sum)	$10,000.00	$16,400.00	$10,000.00
30,000 cu.yd. excavation, class "A" earth	1.30	1.80	1.20
2,700 cu.yd. excavation, class "B" earth	2.00	4.00	2.30
33,000 cu.yd. excavation, class "D" rock	3.00	1.95	2.50
2,500 cu.yd. excavation, class "E" rock	5.00	6.00	4.00
550 cu.yd. excavation, class "F" earth	2.25	4.00	3.00
250 cu.yd. excavation, class "G" rock	6.50	6.50	5.00
850 cu.yd. excavation, class "H" concrete masonry	4.50	5.00	5.00
1,050 cu.yd. excavation, class "J" stone and brick masonry	2.15	5.00	3.00
1,800 sq.yd. excavation, class "K" pavements	.70	2.00	2.40
17,200 cu.yd. concrete, class "A" tube	11.50	10.55	12.00
200 cu.yd. concrete, class "B" ribs, walls, etc.	12.25	20.00	20.00
300 cu.yd. concrete, class "E" rough	5.85	10.55	9.00
105 cu.yd. concrete, class "F" manholes, etc.	11.00	12.50	20.00
306 tons reinforcing steel	86.00	109.00	100.00
7 tons structural steel	190.00	150.00	200.00
18 tons iron castings	135.00	175.00	200.00
50 tons cast iron pipe	90.00	110.00	100.00
150 ft. vitrified sewer pipe, 6 in.	.30	1.00	.80
110 ft. vitrified sewer pipe, 9 in.	.50	1.00	1.50
110 ft. vitrified sewer pipe, 12 in.	.60	2.00	2.30
130 ft. vitrified sewer pipe, 15 in.	1.00	2.00	3.00
50 ft. vitrified sewer pipe, 18 in.	1.40	3.00	4.00
75 ft. vitrified sewer pipe, 24 in.	2.30	3.00	6.00
20 ft. vitrified sewer pipe, 36 in.	5.95	6.00	10.00
30 cu.yd. brick masonry	22.00	45.00	25.00
Underpinning structure No. 1 (lump sum)	3,000.00	5,000.00	3,500.00
Underpinning structure No. 2 (lump sum)	1,500.00	4,100.00	2,600.00
Underpinning structure No. 3 (lump sum)	3,000.00	2,500.00	3,300.00
Underpinning structure No. 4 (lump sum)	3,000.00	5,000.00	4,000.00
Underpinning structure No. 5 (lump sum)	1,000.00	800.00	700.00
Underpinning structure No. 6 (lump sum)	5,000.00	11,500.00	11,100.00
450 ft. intercepting sewer, 30 in.	4.15	7.50	10.00
4,050 lin.ft. tile in invert 8 in.	.60	.50	1.00
8 flop valves, 12 in. and less	55.00	50.00	75.00
6 flop valves, 15 in. to 24 in.	115.00	100.00	230.00
50 lin.ft. supporting water pipes, etc.	3.25	4.00	8.00
15 tons steel for taking care of traffic	100.00	110.00	200.00
20,000 ft. timber for taking care of traffic	90.00	110.00	150.00
26,500 bbl. Portland cement	2.60	3.00	3.00
Extended totals	$509,449	$531,910	$539,288

*The company which was awarded the contract were not the lowest bidders but they received both sections as they deducted 5% which brought them $14,000 lower than the others.

Buildings

PROPOSED WORK

Mass., Boston—School—Bd. Educ. plans to build 36 room school on Fenway St. About $750,000. Architect not selected.

Mass., West Springfield—School—Town having plans prepared by McClintock & Craig, archts., 33 Lyman St., Springfield, for 1 story brick, steel and concrete school on Westfield St., Tatham School Dist. About $50,000. F. H. Sibley, town clk. Noted June 19.

Buildings (Continued)

Mass., Worcester—Office—Federal Development Co., 10 State St., Boston, having plans prepared by F. A. Kendall, archt., 45 Bromfield St., Boston, for 11 story, 106 x 128 ft., on Main and Walnut Sts.

Conn., Bristol—Hotel—A. J. Mussy, 170 Main St., purchased site on Prospect St. and plans to build brick, concrete and steel. About $200,000. Architect not selected.

Conn., Hartford—School—City soon lets contract building 3 story, 108 x 139 ft. brick, concrete and steel addition to Brown School on Talcott St., to include assembly room, gymnasium, etc. About $200,000. L. A. Allen, 904 Main St., archt. Noted July 24.

Conn., Glenville — School — Greenwich Twp. having plans prepared by Guilbert & Betelle, archts., 665 Broad St., Newark, N. J., for 3 story, 12 room grammar school, here. About $120,000.

Conn., Litchfield—Church—Rossiter & Muller, archts., 15 West 38th St., New York City, soon receive bids building native stone and terra cotta church, rein.-con. flooring, on Main St., here, for St. Michael's Protestant Episcopal congregation, Litchfield. About $100,000. Noted Feb. 13.

Conn., Newington—Home—House of Good Shepherd, 170 Sisson Ave., Hartford, plans to build home, here. About $150,000. J. J. Nilan, bishop. Architect not selected.

Conn., Storrs (Eagleville P. O.)—Dormitory—See "Industrial Works."

Conn., Washington—Memorial Hall—Washington War Bureau, Washington Depot, having plans prepared for 2 story brick memorial hall to include auditorium, offices and various society rooms. About $75,000. E. K. Rossiter, 15 West 38th St., New York City, archt.

Conn., West Hartford (Hartford P. O.)—School—Boring & Tilton, archts. and engrs., 52 Vanderbilt Ave., New York City, receive bids about Aug. 25, constructing 3 brick, steel and stone buildings, brick foundations, here, for Amer. School for Deaf, 65 Garden St., Hartford. About $500,000. Noted Aug. 14.

N. Y., Brooklyn—Bank—Greater New York Savings Bank, 5th Ave. and 12th St., had plans prepared by Shampan & Shampan, archts., 50 Court St., New York City, for 2 story, 60 x 100 ft. brick, steel and stone, brick foundation, on 5th Ave. and 9th St.

N. Y., Brooklyn — Theatre — Carlson & Wiseman, archts. and engrs., 226 Henry St., receive bids about Sept. 1, building 3 story, 203 x 302 ft. brick and steel, brick foundation, on Flatbush Ave. and Albermarle Rd., for J. Manheimer, 1694 49th St. About $450,000. Noted June 12.

N. Y., Buffalo—School—St. Matthews Roman Catholic Church plans to build 2 story brick, at 46 Wyoming St. About $50,000. Address Bldg. Com.

N. Y., Buffalo—Theatre—Shea's Theatre, 40 Court St., plans to build 100 x 200 ft., on Main St. About $1,500,000. Architect not selected.

N. Y., Jamaica—Hospital—St. Mary's Hospital, Shelton Ave., plans to build 5 story, 100 x 150 ft., brick and steel addition, brick foundation. About $250,000. Architect not selected.

N. Y., Lackawanna (Buffalo P. O.)—Store—H. J. Kelly plans to build 3 story brick on Ridge Rd. and South Park Ave. About $60,000.

N. Y., New York — Hotel — Starrett & Van Vleck, archts. and engrs., 8 West 40th St., preparing plans for 15 story, 80 x 115 ft. brick, steel and stone, brick foundation, on 72nd St. and West End Ave. About $1,000,000. Owner's name withheld.

N. Y., New York—Hotel—Thirty West 59th St., Incorporation, 120 Bway., having plans prepared by J. E. R. Carpenter, archt. and engr., 681 5th Ave., for 14 story, 50 x 80 ft. brick, steel and stone, brick foundation, at 30 West 59th St. About $450,000.

N. Y., New York—Hotel—Three Hundred and Five West End Corp., 200 West 72nd St., having plans prepared by Schwartz & Gross, archts., 347 5th Ave., for 14 story, 100 x 143 ft., brick, steel and stone, brick foundation, at 301-303 West End Ave. About $400,000.

N. Y., New York—Memorial—Natl. Com. Phi Gamma Delta Fraternity, 511 5th Ave., plans to build brick, steel and stone, brick foundation. About $200,000. Architect not selected.

N. Y., New York—Office and Laboratory—R. S. Copeland, Dept. of Health, having plans prepared by C. B. Meyers, archt., 1 Union Sq., for 10 story, 100 x 100 ft., brick and steel, brick foundation, at 136 West 30th St. About $700,000.

N. Y., Norwich—Library—City having plans prepared by Tooken & Marsh, archts., 101 Park Ave., New York City, for brick, steel and stone. About $125,000. Noted July 17.

N. Y., Syracuse—Institution—Onondaga Orphans' Home having plans prepared by G. Wright, archt., City Bank Bldg., for institution on East Genessee St. Plans include one main building and undecided number of cottages. About $500,000. Engineer not selected.

N. Y., Utica—High School—Bd. Educ. soon receives bids building 188 x 207 ft. Junior High School in 16th Ward. About $250,000. Kiehm & Jennison, Utica, archts. Noted June 26.

N. Y., Utica—School—Bd. Educ. having plans prepared by E. J. Berg, archt., 223 Elizabeth St., for new Mohawk St. School, to include industrial shops. About $300,000. J. Kemper, city engr.

N. J., Bayonne — Hospital — Bd. Dirs. Bayonne City Hospital plan to build addition to hospital, also power plant and nurses' home. About $250,000. R. Sluter, 79 West 41st St., member of com.

N. J., Collinswood — Church — St. Johns congregation rejected bids building 3 story, 30 x 70 ft., stone. E. F. Durang, 1220 Locust St., Phila., archt. Noted Aug. 7.

N. J., Newark—College—St. Benedicts College plans to build addition to college, also gymnasium. About $150,000.

N. J., Newark—Mercantile—Kar-Hock Co., 231 Halsey St., having tentative plans prepared for 3 story, hollow tile and pressed brick, on Brandford Pl.

N. J., Trenton—Bank—Mechanics Natl. Bank, State and Warren Sts., plans to build 14 story bank. Address N. A. K. Bugbeem, 231 West State St., chn. com.

N. J., Trenton—Headquarters—City plans to remodel police headquarters, on Chancery St., cost, $55,000, also build new steel cells, $20,000. G. B. La Barre, dir. pub. safety.

Pa., Phila.—Bank — Chelton Trust Co., 5614 Germantown Ave., plans to build 1 story, 60 x 90 ft., brick, on Broad St., above Roosevelt Blvd. About $50,000. Harris & Richards, Drexel Bldg., archts.

Pa., Phila.—Hospital—Methodist Episcopal Hospital, Broad and Wolf Sts., had plans prepared by H. W. Castor, archt., 21 South 12th St., building 5 story, 80 x 125 ft., fireproof, on Broad and Ritner Sts.

Pa., Pittsburgh—School—Pittsburgh College of Chiropractic soon lets contract building 2 story, 60 x 98 ft. brick addition, concrete foundation, at 130 South Fairmont St. About $75,000. Address R. M. Trimble, Ferguson Bldg., archt.

Pa., Reading—Store—Harold Furniture Co., 812 Penn St., soon receives bids building 6 story, 40 x 270 ft. brick. F. A. Muhlenberg, Flanders Bldg., Phila., archt. Cost to exceed $50,000.

N. C., Oxford—Hospital—Grand Lodge Masons, Charlotte, plan to build 2 story hospital here. About $50,000. C. C. Hook, Trust Bldg., Charlotte, archt.

O., Cleveland—Commercial—E. McGeorge, archt., 1900 Euclid Ave., preparing plans and soon receives bids building 2 story, 83 x 163 ft., rein.-con., steel and brick, at 1900 Prospect Ave., for Kennedy Co., 1900 Euclid Ave. About $85,000.

O., Cleveland — Commercial — F. P. Schreiner, East 55th St. and Cedar Ave., plans to build 2 story, 86 x 200 ft., rein.-con., steel and brick. About $50,000. Architect not selected.

O., Cleveland—Office—Chandler Motor Car Co., East 131st St. and St. Clair Ave., plans to build 5 story, 42 x 95 ft., rein.-con., steel and brick. About $100,000. Architect not selected.

O., Cleveland—Theatre—See "Industrial Work."

O., Cleveland—Theatre and Office—Eveland Theatre Co., Hippodrome Bldg., plans to build 10 story, 150 x 200 ft., rein.-con., steel and brick, on East 7th St. and Prospect Ave. About $1,500,000. Architect not selected.

O., Columbus—Salesroom—See "Industrial Works."

O., Columbus—Schools—City voted $1,432,562 bonds to build schools in spring. Plans include eight 12 room buildings, cost $218,000 each, and changes in present ones, $350,000.

O., Dayton—Salesroom—See "Industrial Works."

O., Middletown—High School—City plans election soon to vote on $300,000 bonds to build high school.

O., West Liberty—School—Bd. Educ. plans to build 3 story, rein.-con. and brick, concrete foundation. Bonds for $95,000 voted for project. Address S. H. Stanley, supt. schools. Architect not selected.

Mich., Detroit—Community House—Westminster Presbyterian congregation, Woodward and Parsons Sts., having plans prepared by G. M. Lindsey, archt., 2201 Dime Bank Bldg., constructing 2 story, 114 x 118 ft., rein.-con., brick and steel, concrete foundation, on Glynn Court and Hamilton Blvd. About $100,000.

Mich., Detroit — Hospital—Providence Hospital, West Grand Blvd. and 14th St., having plans prepared by L. Kamper, archt., 752 Book Bldg., building 4 story, 75 x 85 ft., rein.-con., brick and steel, rein.-con. flooring, concrete foundation, on West Grand Blvd. About $75,000.

Mich., Detroit—Mercantile—D. L. Colwell, 701 Old Whitney Bldg., having plans prepared by Williams Bros., archts., 1111 Kresge Bldg., for 3 story, 150 x 160 ft. rein.-con., brick and stone, rein.-con. flooring, concrete foundation, on Grand River Ave. near Hobson Ave. About $100,000.

Mich., Detroit—Office and Mercantile—Walsh & O'Dell, archts., 1327 Chamber of Commerce Bldg., preparing plans for 2 story, 80 x 108 ft., brick, stone and steel, concrete foundation, on Gratiot Ave. near Brush St. Owner's name withheld.

Mich., Detroit—Police Headquarters—Police Dept., c/o J. Inches, comr., Bates and Farmer Sts., having preliminary plans prepared by A. Kahn, archt., Marquette Bldg., for 2 story, rein.-con., stone, steel and brick, rein.-con. flooring, concrete foundation. About $300,000.

Mich., Detroit—Schools—Bd. Educ., 50 Bway. Ave., having tentative plans prepared by Malcolmson & Higgonbotham, archts., 404 Moffet Bldg., for high school, junior high schol and elementary school, rein.-con., steel and brick, rein.-con. flooring, concrete foundation. About $1,000,000.

Mich., Detroit—Theatre—C. W. Brandt, archt., 1114 Kresge Bldg., prepared plans for 2 story, 100 x 160 ft., rein.-con., terra cotta, brick and steel, rein.-con. flooring, concrete foundation, on Woodward Ave. About $150,000. Owner's name withheld.

Mich., Ferndale—High School—Bd. Educ. rescinded contract let to H. Mueller, 1711 Ford Bldg., Detroit, and having revised plans prepared for rein.-con., brick and steel, concrete foundation. About $90,000. G. Haas, 1514 Kresge Bldg., archt.

Mich., Martin—School—Bd. Educ. having plans prepared by E. S. Batterson, archt., 918 Lane St., Kalamazoo, building 1 story, brick, stone and steel addition, wood flooring, concrete foundation. About $75,000.

Mich., River Rouge — Church — River Rouge Methodist Episcopal congregation having plans prepared by W. E. N. Hunter, archt., 1306 Chamber of Comerce Bldg., constructing 1 story, 80 x 80 ft., brick and stone, wood flooring, concrete foundation, on West Jefferson and Elm Sts. About $75,000.

Mich., Romeo—Temple and Stores—Romeo Masonic Lodge having plans prepared by G. W. Graves, archt., 43 John R St., Detroit, for 2 story rein.-con. and brick, concrete foundation. About $60,000.

Ill., Chicago — Hall — G. J. Breinig, Rockford, c/o H. J. Schlacks, archt., 721 North Michigan Ave., having plans prepared for 1 and 2 story, 140 x 200 ft. dance hall, rein.-con., concrete foundation, on Grace St. and Bway., here. About $150,000.

Buildings (Continued)

Ill., Chicago — Hotel — Sheridan-Wilson Hotel Co., c/o W. W. Ahlschlager, archt., 111 West Washington St., having plans prepared for 12 story, 130 x 225 ft., on Sheridan Rd. and Wilson Ave. About $2,000,000.

Ill., Chicago—Hotel—J. R. Thompson, 350 North Clark St., having preliminary plans prepared by Marshall & Fox, archts., 721 North Michigan Ave., for 16-22 story, 70 x 160 ft., on Dearborn and Madison Sts. Cost between $3,000,000 and $4,000,000.

Wis., Eau Claire—Bank—Union Natl. Bank, Grand Ave. E and Barstow St., plans to build 2 story, 60 x 150 ft. brick. About $100,000. G. B. Wheeler, pres. E. Hutchens, 703 Wisconsin St., engr.

Ia., Spencer—Hotel—E. C. Tangney, Sheldon, having plans prepared by Boyd & Moore, archts., 314 Securities Bldg., Des Moines, for 4 story, brick, here. About $100,000.

Minn., Ada — High School — City voted $50,000 bonds to build new high school.

Minn., Minneapolis — Hotel — Nicollet Hotel Co., Nicollet and Washington Sts., plans to build 8 story, rein.-con. and brick, containing 800 rooms, at Gateway Ave. About $1,500,000. G. Dixon, mgr. Architect not selected.

Minn., St. Paul—Administration—Salvation Army, 534 Minnesota St., having sketches made for concrete and brick, at 1471 West Como Ave. About $110,000. Architect's name withheld.

Kan., Cottonwood Falls—High School—Chase Co. election Sept. 2 to vote $100,000 to build rural high school.

Kan., Emporia — Bank — Citizens Natl. Bank having preliminary plans prepared by Weary & Alford, archts., 1907 South Michigan Ave., Chicago, building 7 story, 62 x 130 ft., rein.-con. and brick, rein.-con. flooring, concrete foundation. About $350,000.

Kan., Ft. Scott—Auditorium—City plans to build victory auditorium. About $200,000. W. F. Schmidt, 1634 West 10th St., Oklahoma City, Okla., archt.

Kan., Haven—High School—Bd. Educ. voted $60,000 bonds to build high school.

Kan., Peabody—Hotel—F. P. Steinhauer Assn. having plans prepared by J. H. Felt Co., archts., 802 Grand Ave. Temple, Kansas City, Mo., building 3 story, 50 x 140 ft., brick, to be known as Hotel Forrester.

Kan., Stanley—High School—Bd. Educ., c/o P. L. Kellogg, clk., having plans prepared by T. W. Williamson, & Co., archts., 418 Central Natl. Bank Bldg., Topeka, building 2 story, concrete, steel and brick, concrete foundation. About $55,000.

Kan., Wichita—Bank—State Saving & Mercantile Bank, 115 East Douglas Ave., having plans prepared by Childs & Smith, archts., 64 East Van Buren Ave., Chicago, building 4 story, 55 x 140 ft., rein.-con. and brick, rein.-con. flooring.

Neb., Omaha—Stores and Office—G. W. Smith, Warrenton Park, Me., plans to build 10 story, 66 x 132 ft. rein.-con. and brick, on 10th and Harney Sts. About $250,000. Architect not selected.

N. D., McIntosh — Court House—Ashley Co. plans to build court house. Bonds for $75,000 voted for project.

Wyo., Casper—Hall—Moose Lodge plans to build 2 story hall. About $65,000. DuBois & Goodrich, Casper, archts.

Wyo., Sheridan—Church—First Methodist Episcopal congregation plans to build 2 story, 120 x 130 ft., on Works and Tschirgi Sts. About $100,000. T. P. Barber, 74 Bank Bldg., Colorado Springs, Colo., archt.

Mo., Galena — Court House — Comrs. Stone Co. having plans prepared by C. H. Sudhoelter Co., archts., 215 West 9th St., Joplin, for court house. About $50,000. Noted July 24.

Tex., Arlington—Art Building—Grubbs' Vocational College plans to construct mechanics art and shop building; also temporary barracks and mess hall. About $60,000. A. Williams, dean.

Tex., Bowie—Schools—Bd. Educ. plans to build 3 story, 112 x 186 ft. high school and 3 story, 64 x 192 ft., grade school. About $350,000. Sanguinet & Staats, 1st Natl. Bank Bldg., Ft. Worth, archts. Noted June 5.

Tex., Dallas—Salvation Army, Southwestern Life Bldg., plans to construct 6 story, 62 x 96 ft., building. About $100,000. G. Wood, brig. genl.

Tex., Ennis — Theatre — J. M. Savey plans to build theatre on West Knox St. About $50,000.

Tex., Ranger — Station — Texas & Pacific R.R., Griffin and Pacific Sts., Dallas, plans to build passenger station on Main St., here. About $100,000. E. F. Mitchell, ch. engr.

N. M., Albuquerque — Hospital — E. H. Norris, archt., Cromwell Bldg., soon lets contract building 2 story, brick, concrete foundation, on East Grand Ave., for Cipes Sanatorium, Inc. About $85,000.

Ariz., Phoenix—Legion—Amer. Legion, State Chapter, plans to construct legion building on 7th Ave., between Madison and Jefferson Sts. About $75,000. Architect not selected.

Ariz., Yuma — School — School Trustees soon receive bids building 2 story, brick and concrete, containing 20 rooms. About $125,000 available. N. F. Marsh, 211 Bway. Central Bldg., Los Angeles and V. O. Wallingford, Goodrich Bldg., Phoenix, archts.

Wash., Seattle — Mission Home — First Presbyterian congregation having plans prepared by J. A. Creutzer, archt., Leary Bldg., for 1st unit of Oriental Mission Home, on 9th Ave. S and Welfare St., including 2 story, 110 x 120 ft., brick building. About $55,000. Total amount to be expended $150,000.

Cal., Bishop—School—Trustees Bishop Union High School Dist. plan to build school. Election soon to vote on $150,000 bonds for project. W. H. Weeks, 75 Post St., San Francisco, archt.

Cal., Long Beach — Lodge — I. O. O. F., Lodge No. 390 plans to build on 75 x 150 ft. site on American Ave. D. L. Bathurst, secy. Architect not selected.

Cal., Los Angeles—Club—B. P. O. E. Lodge No. 99 plans to build club, cost $1,000,000. Committee appointed to select site. L. V. Youngworth, chn. Architect not selected.

Cal., Los Angeles—Hotel—H. Biescar, c/o W. J. Saunders, archt., 229 Laughlin Bldg., soon lets contract building 8 story, 55 x 126 ft., rein.-con., containing 155 rooms, on 8th and Hope Sts.

Cal., Los Angeles — Office — Los Angeles Ry., Pacific Electric Bldg., prepared preliminary plans for 11 story, 65 x 176 ft., rein.-con., brick, terra cotta and hollow tile, concrete foundation, on 11th St. and Bway. About $400,000.

Cal., Los Angeles — Store — A. Hamberger & Son, 8th St. and Bway., had preliminary plans prepared by A. C. Martin, archt., 430 Higgins Bldg., for 4 story, 200 x 320 ft., steel and terra cotta, addition, rein.-con. flooring.

Cal., Modesto — School — City election Sept. 4 to vote on $165,000 bonds for addition to high school and $185,000 bonds for new grammar school. J. J. Donovan, archt., 414 13th St., Oakland, prepared preliminary plans. Noted June 5.

Cal., Oakland—College—Bd. Trustees St. Mary's College purchased 250 acre site on Foot Hill Blvd. and plan to build college.

Cal., San Diego — Store — Sunshine Realty Co. plans to build 8 story, 100 x 100 ft., rein.-con. C. S. Holzwasser, pres. Holzwasser, Inc., Bway., lessee. Architect not selected.

Cal., San Francisco—School—Bd. Pub. Wks. having plans prepared by J. Reid, Jr., archt., 1st Natl. Bank Bldg., for 2 story, 12 room, masonry, on Harrison St. About $90,000.

Que., Montreal—Theatre—Allen Theatre Co., Richmond St. E., Toronto, Ont., having plans prepared by C. H. Crane and E. G. Kiehler, archts., 2325 Dime Bank Bldg., Detroit, Mich., for 2 story, 45 x 70 ft. rein.-con. steel and brick, rein.con. flooring, concrete foundation, on McGill St., here. About $250,000 Noted July 31.

Ont., Ingersoll—Collegiate—Bd. Educ. recommended that bylaw be submitted and plans drawn for building 3 story, concrete, steel and brick, concrete foundation. About $120,000. Architect not selected.

Ont., London—Store and Office—Crafton Co., Dundas St., having plans prepared by Watt & Blackwell, archts., Bank of Toronto Bldg., and soon receives bids building 3 story, 60 x 125 ft. concrete, steel and brick, rein.-con. flooring, rock foundation. About $75,000.

BIDS DESIRED

N. Y., Hartsdale—School—Until Sept. 4, by Tooker & Marsh, archts. and engrs., 101 Park Ave., New York City, building 1 story, brick, steel and stone, brick foundation. About $75,000.

N. Y., S. I., Dongan Hills—School—Until Aug. 25, by C. B. J. Snyder, supt. school bldgs., Municipal Bldg., New York City, building P. S. No. 11, on Jefferson Ave. between Garretson and Cromwell Aves., Richmond Boro.

N. Y., Troy—Armory—Until Sept. 1, by F. W. Ward, secy. state bd. armory comrs., 158 State St., Albany, building armory here, also installing heating, sanitary and electric work in same. L. F. Pilcher, Capitol, Albany, state archt.; advertised in this issue. Noted July 17.

Pa., Cristy Park (McKeesport P. O.)—Office—Natl. Tube Co., Frick Bldg., Pittsburgh, receiving bids constructing 3 story, 46 x 90 ft. office building and 3 story, 47 x 64 ft. time building here, rein.-con. and brick, rein.-con. flooring, concrete foundation. E. Stotz, Monongahela Bank Bldg., Pittsburgh, archt.

Pa., Phila. — Synagogue—Fieldstein & Scharf, archts., 1328 Chestnut St., receiving bids building 2 story, 75 x 100 ft., concrete and brick, on Belfield and Broad Sts., for Beth Shalom congregation. About $100,000. Noted June 12.

Pa., Williamsport—Schools—Until Aug. 26, by Bd. Educ. building two 2 story, 150 x 200 ft., brick, steel and rein.-con. schools one on Wayne Ave. and Newberry St. and the other on Curtin Ave., north of Braden Park. About $150,000 each. E. E. Joralemon, 547 Franklin St., Buffalo, N. Y., archt. Noted July 17.

Va., Eastville—Hotel—Until Aug. 25, by B. F. Mitchell, archt., 500 Seaboard Bank Bldg., Norfolk, building 3 story, 62 x 108 ft. brick and timber, rock and brick foundation, here, for Northampton Hotel Corp., Eastville. About $75,000.

Va., Richmond—Theatre—Until Aug. 25, by Carneal & Johnston, archts. and engrs., 707 Chamber of Commerce Bldg., building 1 story, 94 x 123 ft., on 8th and Broad Sts., for Vincent & Wells Co. About $150,000.

Fla., Jacksonville—Schools—Until Aug. 30, by Bd. Pub. Instruction, 203 Court House, building brick additions to Duval High school and school at Fairfield. R. A. Benjamin, Bisbee Bldg., archt.

O., Canton—School—Bd. Educ. receiving bids building 2 story, 114 x 200 ft., rein.-con., steel and brick, on 16th and Vine Sts. About $200,000. F. C. Warner, 767 Hippodrome Bldg., Cleveland, archt. Noted July 24.

O., Cleveland — Sales — W. S. Ferguson Co., archts., 1900 Euclid Ave., receiving bids building 2 story, 107 x 222 ft., rein.-con., steel and brick, on East 30th St. and Chester Ave., for H. T. Neighbors, 1900 Euclid Ave. About $75,000.

O., Fletcher—School—Until Sept. 8, by Bd. Educ., Brown Twp., building 2 story, 70 x 110 ft., rein.-con. and brick, concrete foundation. About $50,000. G. R. Walker & Co., 1301 Conover Bldg., Dayton, archts.

O., Massillon—Store and Office—Snyder-Hess Co., Erie St., receiving bids building 8 story, 79 x 163 ft., steel and brick, concrete foundation, on Mill and Main Sts. W. R. Powell, 705 Rose Bldg., Cleveland, archt. Noted July 24.

Mich., Detroit—Hospital—A. King, archt., Marquette Bldg., receiving bids building 4 story, 35 x 70 ft, rein-con. and brick addition to hospital, rein.-con. flooring, concrete foundation, on Willis Ave. and John R St., for Grace Hospital, Willis Ave. About $75,000.

Mich., Flint—Theatre—W. S. Butterfield, genl. mgr. Flint Theatre Co., Saginaw St., receiving bids building 1 story, 50 x 90 ft., rein.-con., brick and steel, rein.-con. flooring, concrete foundation, on Louisa and Saginaw Sts. About $100,000.

Ill., Chicago Heights—Club and Theatre—P. Gerhardt, archt., 64 West Randolph St., receiving bids for 5 story, 100 x 142 ft., rein.-con. and brick, rein.-con. flooring, concrete foundation, on Illinois and Oak Sts., for Chicago Heights Country Club. About $350,000 Noted June 12.

Buildings (Continued)

Ill., Evanston — Parish — Tallmadge & Watson, archts., 189 West Madison St., receiving bids for 2 story, 45 x 140 ft., stone and timber, rock foundation, on Homan and Lee Sts., for St. Luke's Episcopal Parish, 404 Lee St. About $50,000.

Wis., Superior—Auditorium—Until Sept. 11, by City Clerk, building 3 story, 102 x 140 ft. rein.-con. and brick, rein.-con. flooring, concrete foundation, on 14th St. and Ogden Ave. About $150,000. J. O'Bach, 1111 Tower Ave., archts. and engrs.

Minn., Cloquet—City Hall and Jail—Until Sept. 12, by J. Parks, city clk., building 2 story, 40 x 80 ft. brick and stone, rein.-con. flooring, concrete foundation, on Arch St. About $50,000. Halstead & Sullivan, Palladio Bldg., Duluth, archts. and engrs. Noted June 17.

Minn., Minneapolis — School — Until Sept. 11, by Bd. Educ. building 1 story, 60 x 140 ft. addition to Whitney School on 19th Ave., N. E. and Pierce St. About $52,000. Bureau of Bldgs., c/o Bd. Educ., archts. Noted Aug. 14.

Minn., Minneapolis—Theatre—Hamm, Finkelstein & Ruben, Palace Theatre, receiving bids building 1 story, 100 x 140 ft. steel, terra cotta and brick on Nicollet Ave., near 14th St. About $175,000. Kees & Colburn, Plymouth Bldg., archts. Noted June 5.

Minn., Northfield—Science Hall—Until Aug. 30, by St. Olaf College, building 3 story, 76 x 200 ft. brick, stone, concrete and steel, rein.-con. flooring, concrete and rock foundation. About $200,000. N. E. Mohn, Endicott Bldg., St. Paul, archt. Noted July 3.

Minn., Willmar—Service—Until Sept. 1, by Bd. Control, Capitol, St. Paul, building 2 story, 45 x 120 ft., rein.-con. and brick, at state asylum here. About $85,000. C. H. Johnston, Capitol Bank Bldg., St. Paul, engrs. and archts. Noted July 3.

Kan., Lyndon—Court House—Until Sept. 4, by Osage Co., building 3 story, rein.-con., steel and brick, rein.-con. flooring, concrete foundation. About $200,000. W. E. Hulse & Co., Hutchinson, archts. Noted Aug. 14.

Mo., St. Louis—Bank—Until Sept. 1, by Mauran, Russell & Crowell, engrs., Chemical Bldg. or C. Gilbert, archt., 244 Madison Ave., New York City, building 4 story, 127 x 164 ft., rein.-con., terra cotta, steel and brick, rein.-con. flooring, rock foundation, for 1st Nat'l. Bank, Bway and Locust Sts. Cost to exceed $1,000,000.

Mo., Sugar Creek—School—Until Aug. 28, by Bd. Educ., building 2 story, 63 x 86 ft., school and 1 story, 24 x 50 ft., boiler house, concrete, steel and brick, rein.-con. flooring, concrete foundation. About $65,000. A. B. Anderson, 818 New York Life Bldg., Kansas City, archt.

Okla., Oklahoma City — Church—First Church Christ, Scientist, c/o G. P. Westesvelt, receiving bids building 2 story, 90 x 100 ft., brick, concrete and steel, concrete foundation. About $100,000. C. L. Butler, Tulsa, archt.

Okla., Oklahoma—Office—F. P. Johnson, 140 West Main St., receiving bids building 3 story, 50 x 140 ft., rein.-con., steel and brick, rein.-con. flooring, concrete foundation. About $75,000. Hawk & Parr, 501 Security Bldg., archts.

Okla., Oklahoma—School—Until Aug. 26, by Bd. Educ. building 2 story, 63 x 211 ft., rein.-con., steel and brick, rein.-con flooring, concrete foundation, at 1215 North Durland St. About $90,000. Layton, Smith & Forsythe, 701 Majestic Bldg., archts. Noted June 5.

Okla., Oklahoma—School—Until Aug. 26, by Bd. Educ. building 2 story, 63 x 245 ft., rein.-con., steel and brick, rein.-con. flooring, at 2317 North Western St. About $90,500. Layton, Smith & Forsythe, 701 Majestic Bldg., archts. Noted June 5.

Okla., Okmulgee—Theatre—Until Sept. 2, by L. H. D. Cook, building 2 story, 50 x 140 ft., concrete, steel and brick, rein.-con. flooring. About $100,000. Smith, Rea, Lovitt & Senter, Okmulgee, archts. Noted Aug. 14.

Idaho, Twin Falls—Church—Until Sept. 2, by Bldg. Com. of St. Edwards Church, building 2 story, 56 x 120 ft. brick and terra cotta. About $55,000. E. H. Gates, Twin Falls, archt.

Cal., Merced—Schools—Until Sept. 2, by Bd. Trustees of Merced Union High School Dist. erecting group of concrete and brick or hollow tile high school buildings. About $180,000. Bids will be taken on 13 different segregated portions of work. Former bids rejected. Allison & Allison, 1405 Hibernian Bldg., Los Angeles, archts.

Cal., San Francisco—State—Until Sept. 5, by W. F. McClure, state archt., Forum Bldg., Sacramento, furnishing and erecting structural steel frame and iron work for state building, here. Cost of completed building $1,000,000. Bliss & Faville, Balboa Bldg., archts.

Que., Amos—Bank—Until Aug. 28, by L. A. Amos, archt., 78 Crescent St., Montreal, building 2 story, 55 x 60 ft., concrete, steel and brick, concrete foundation, on Notre Dame St., here, for Bank of Hochelaga, St. James St., Montreal. About $60,000.

Ont., St. Catharines—Schools—School Bd. receiving bids building two 2 story, brick and steel, concrete foundation. About $140,000. A. E. Nicholson, 46 Queen St., archt. Noted June 5.

Ont., Toronto—Bank—Darling & Pearson, archts., 2 Leader Lane, receiving bids building 3 story, 60 x 80 ft. brick and steel, concrete foundation, on Wellington St., for Merchants Bank of Canada, 13 Wellington St. W. About $80,000. Noted Apr. 25.

Ont., Toronto—School—Until Aug. 27, by Bd. Educ., building 2 story, addition to school on Morley Ave., concrete, steel and brick, concrete foundation. About $80,000. J. Seddall, Confederation Life Bldg., archt.

Ont., Toronto—School—Until Aug. 27, by W. C. Wilkinson, secy. bd. educ., building 2 story, steel and brick, rein.-con. flooring, concrete foundation, on Kingston Rd., to be known as Norway Primary School. About $100,000. George & Moorehouse, 65 Victoria St., Toronto, archts. Noted Apr. 24.

Ont., Toronto—School—Until Aug. 29, by Bd. Educ., 155 College St., building 2 story addition to school on Keele St., concrete, steel and brick, concrete foundation. About $60,000. Chapman & Oxley, Harbor Bldg., archts.

Ont., Toronto—School—Until Aug. 29, by Bd. Educ., 155 College St., building addition to Earl Gray School, on Jones Ave., 2 story, concrete, steel and brick, concrete foundation. About $60,000. E. G. Bud, 6 King St., West Toronto, archt. Noted Apr. 24.

PRICES AND CONTRACTS AWARDED

(★Indicates award of contract)

★**Mass., Worcester** — Houses—Worcester Housing Corp. let contract building twenty 2 story, brick and timber houses for workmen, to E. J. Cross Co., 82 Foster St., and 6, to J. J. Powers, 15 Ashland St. About $150,000. Noted July 17.

★**Conn., Bridgeport**—Office—See "Industrial Works."

★**Conn., Hartford**—Business—I. A. Allen, Jr., archt., 904 Main St., let contract to Korder & Sawyer, 45 Gold St., remodeling lower and upper floors of 4 story brick building on High and Allyn Sts., for G. F. Heublein, Inc., 196 Trumbull St. About $100,000. Noted July 24.

★**Conn., Hartford**—Office—Hartford Times, 716 Main St., let contract building 3 story, steel, brick and stone, brick foundation, on Prospect St., to M. Eidlitz, 30 East 42nd St., New York City. About $100,000.

★**Conn., Ridgefield**—Bank—First Natl. Bank, Main St., let contract building 1 story, 25 x 40 ft. brick, steel and concrete, rein.-con. flooring, concrete foundation, to W. A. Smith & Son, 188 Cannon St., Bridgeport. About $50,000. Noted Aug. 7.

★**Conn., Terryville** — Housing — Eagle Lock Co., South Main St., let contract building thirty 1 story timber houses for workmen, concrete and stone foundation, at Hillside Park, to Westinghouse, Church, Kerr Co., 30 Church St., New York City. About $75,000. Private plans.

★**Conn., Waterbury**—Office—Scovill Mfg. Co., 99 Mill St., let contract building 4 story brick and rein.-con., rein.-con. flooring, concrete foundation, on Cole, Baldwin and Mill Sts., to M. Eidlitz & Sons Co., 30 East 42nd St., New York City. About $150,000. Noted July 24.

★**Conn., Waterbury**—Restaurant—King-Yen Co., 61 East Main St., let contract converting brick and timber building on Bank St., into restaurant, to G. A. Upham, West Main St. About $50,000.

★**N. Y., Buffalo** — Office Buffalo Fdry. & Machine Co., 1543 Fillmore Ave., let contract building 2 story, 70 x 90 ft. concrete and brick, rein.-con. flooring, concrete foundation, on East Ferry St., to B. I. Crocker, Builders Exch. About $70,000. Noted Aug. 7.

★**N. Y., Gloversville**—Temple—Trustees Masonic Order let contract building brick, steel and concrete temple, to W. Lyon & Son, Herkimer. About $68,950.

★**N. Y., New Rochelle**—School—Dept. Educ. let contract building 3 story, brick, steel and stone, brick foundation, to E. Dieditsch, 383 Madison Ave., New York City. About $200,000.

★**N. Y., New York** — Bank — Seaboard Natl. Bank, 18 Bway., let contract building 3 story, 80 x 94 ft. brick, steel and stone, brick foundation, on Broad and Beaver Sts., to C. T. Wills Constr. Co., 286 5th Ave. About $350,000. Noted Apr. 24.

★**N. Y., New York**—Clinic—Vanderbilt Clinic, 437 West 59th St., let contract building 3 story, brick and steel addition, brick foundation, to Wharton, Green & Co., Inc., 37 West 39th St. About $50,000.

★**N. Y., New York** — Loft — T. A. Meyer, archt. and engr., 114 East 28th St., let contract to Continental Iron & Steel Co., 2 Rector St., building 12 story, 25 x 100 ft., brick, steel and stone, brick foundation, on 30th St. and Madison Ave., for S. Straus & Co., 127 East 26th St. About $140,000. Noted Aug. 14.

N. Y., New York — Office — Cunard Steamship Co., 25 Bway., let contract building 250 x 250 ft. brick, steel and stone, brick foundation, to Hines & Todd, 101 Park Ave. About $4,000,000. Noted Dec. 12, 1918.

★**N. Y., New York**—Office, etc.—New York Edison Co., Irving Pl. and 15th St., let contract building 3 story, 55 x 75 ft., brick and steel office and power house, brick foundation, at 31 Hester St., to G. Sykes Co., 70 East 45th St.

★**N. Y., New York**—Office and Loft—R. H. Almiroty, archt. and engr., 220 5th Ave., let contract to H. P. Wright Co., 25 West 42nd St., building 6 story, 27 x 100 ft., brick and steel, brick foundation, at 31 West 57th St., for Sohmer & Co., 315 5th Ave. About $75,000. Noted July 3.

★**N. Y., New York** — Stores — Fouval Realty Co., 135 Bway., will build 2 story, 75 x 90 ft. brick and steel, brick foundation, on Tiebout Ave. and Fordham Rd. About $65,000. Work will be done by day labor.

★**N. Y., Schenectady**—Theatre—M. Spiegel, Strand Theatre Bldg., New York City, let contract making necessary alterations to 2 story, brick and steel theatre, here, to Jarden Co., 507 5th Ave., New York City. About $100,000. Noted July 17.

★**N. Y., Watertown**—Bank—Watertown Natl. Bank, 100 Court St., let contract building 1 story, 100 x 100 ft., brick, steel and stone, brick foundation, on Public Sq., to Kelly & Kelly, 12th St., Long Island City. About $60,000. Noted June 26.

★**N. J., Jersey City**—Office, Show Room, etc.—Buick Motor Co. let contract building 4 story, 78 x 148 ft., brick on Bergen Ave., to W. Robinson, Inc., Jersey City. About $75,000.

★**N. J., Newark**—Office—Hay Fdry. & Iron Wks., Lentz Ave. and Plum Point Lane, let contract building 4 story, 50 x 100 ft., 1st floor to be rein.-con., others to be steel with brick walls, concrete floors, to Amer. Concrete Steel Co., 27 Clinton St.

★**Pa., Phila.**—Bank—Northwestern Trust Co., 23 Ridge and Columbia Sts., let contract building 1 and 2 story, 50 x 80 x 100 ft. rein.-con. and steel, to P. Haibach, 1261 North 26th St. About $75,000.

★**Md., Baltimore**—Hall—Trustees Morgan College, Hillen Rd., let general contract building 2½ story, 85 x 200 ft., stone and brick, stone foundation, to be known as Carnegie Hall, to C. E. Ehman & Son, Beauregard Ave., near Woodburne; plastering to J. H. Hampshire, 15 East Fayette St.; total cost, $85,000. Noted May 22.

Buildings (Continued)

★**La., Shreveport — Club** — Shreveport Country Club let contract building clubhouse, to W. H. Werner, Shreveport. About $75,000.

★**O., Canton**—Rest House—Pennsylvania Lines West of Pittsburgh, Penobscot Bldg., Detroit, Mich., let contract building 4 story, 120 x 250 ft., rein.-con., brick and terra cotta, at Pennsylvania Sta., here, to Walbridge-Alldinger Co., 2356 Penobscot Bldg., Detroit. Noted July 3.

★**O., Cleveland**—High School—F. C. Warner, archt., 767 Hippodrome Bldg., let contract to P. Kirschner Co., 1008 Hippodrome Bldg., for 3 story, 125 x 200 ft., rein.-con., steel and brick, on Lee Rd., for Bd. Educ. About $300,000. Noted Apr. 17.

★**O., Springfield**—Office—R. C. Gotwald, archt., Gotwald Bldg., let contract to J. A. Poss, Springfield, building 3 story, 52 x 150 ft., rein.-con. and brick, rein.-con. flooring, concrete foundation, on West Columbia St., for Springfield Metallic Casket Co., Center St. About $60,000. Noted July 24.

★**O., Springfield**—Salesrooms—See "Industrial Works."

★**Mich., Detroit**—Chapel—Providence Hospital, West Grand Blvd. and 14th St., let contract building 4 story, 40 x 140 ft., rein.-con., brick and steel, rein.-con. flooring, concrete foundation, to J. Finn, 2373 Woodward Ave. About $75,000. Noted July 24.

★**Mich., Detroit**—Store and Hotel—G. A. Lindke, Monroe and Farmer Sts., let contract building 3 story, 140 x 159 ft., rein.-con., steel and brick, rein.-con. flooring, concrete foundation, on Woodward Ave. and Peterboro St., to Detroit Metal & Steel Co., 1st and Congress Sts. About $300,000. Noted Aug. 7.

Mich., Detroit—Theatre and Bank—Zemon & Wetsman, 1020 Chamber of Commerce, let contract building 2 story, rein.-con., brick and steel, on Linwood Ave. and Virginia Park, to H. Carew, 210 Joseph Campau Ave. Noted July 31.

★**Ill., Bement**—High School—Bd. Educ. let contract building 3 story, 50 x 200 ft., brick and stone, rein.-con. flooring, concrete foundation, to English Bros., Champaign. About $125,000.

★**Ill., Rockford**—Church—S. M. Seator, archt., 35 North Dearborn St., Chicago, let contract to C. A. Juhl, 133 West Washington St., Chicago, for 1 story, 60 x 115 ft., brick and stone, concrete foundation, on Palm and Court Sts., for 1st Baptist congregation, Church and Mulberry Sts. About $60,000. Noted Aug. 7.

★**Minn., Albert Lea** — Grade School — Bd. Educ. let contract remodeling and building 2 story addition, to C. M. Tattager, Albert Lea, $52,226. Noted July 31.

Minn., Sauk Center — Cottages — State Bd. Control, Capitol, St. Paul, received bids building two 2 story, 35 x 80 ft., frame cottages, at State Home for Girls, here, (general contract) from N. P. Frandsen, 510 Rice St., St. Paul, $53,400; heating and plumbing, M. J. O'Neil, 60 East 6th St., St. Paul, $17,697; electric work, Beck Eng. & Constr. Co., Plymouth Bldg., Minneapolis, $12,070. Noted July 3.

★**Kan., Salina**—Academy—Sisters of St. Joseph, Concordia, let contract building 4 story, 150 x 300 ft. brick, rein.-con. flooring, for Mt. St. Mary's Academy, here, to Swenson Constr. Co., Kansas City. About $600,000; cost plus percentage basis.

★**Neb., College View** — School — Bd. Educ. let contract building 2 story, 65 x 100 ft., brick, to R. O. Stake, 346 North 28th St., Lincoln, $51,886.

★**Neb., Omaha** — A. W. Gordon, 8th and Dodge Sts., let contract building 5 story, 126 x 132 ft., rein.-con. and brick warehouse, rein.-con. flooring, concrete foundation, on 9th and Dodge Sts., to P. Kiewitt & Sons, 754 Omaha Nat'l Bank. About $200,000.

Wyo., Douglas—School—School Dist. received bids Aug. 2, building 3 story, from E. Raevill, Douglas, $52,793; W. G. Calaghan, Thermopolis, $53,333; C. C. Young, Casper, $54,400. Noted July 31.

★**Mo., Hallsville**—High School—Bd. Educ. let contract building 2 story, 50 x 70 ft., rein.-con., stucco, steel and brick, rein.-con. flooring, rock foundation, to Hallsville Constr. Co., Hallsville. About $60,000.

★**Mo., Morrisonville**—School—Bd. Educ. let contract building 2 story, 63 x 110 ft., concrete, brick and steel, to H. O. Hirsch Co., Wainwright Bldg., St. Louis. About $50,000. Noted July 31.

★**Mo., St. Louis**—Hotel—Fremont Investment Co., 810 Chestnut St., let contract building 4 story, 45 x 103 ft., rein.-con., steel, brick and terra cotta, rock foundation, at 5564 Pershing Ave., to Cornwell Constr. Co., 810 Chestnut St. About $55,000.

★**Mo., St. Louis**—Store—Arthur Realty Co., 6th and Washington Sts., let contract building 11 story, 90 x 150 ft., steel and concrete, to Westlake Constr. Co., 717 Locust St. About $480,000.

★**Okla., Ada** — School—State Bd. Pub. Affairs, c/o G. Clark, secy., let contract building 2 story, brick and rein.-con., rein.-con flooring, to Manhattan Constr. Co., 3rd and Fondulac Sts., Muskogee. About $95,000.

★**Okla., Oklahoma** — Church — Grace Methodist Episcopal Church, South, c/o C. A. German, let contract building 2 story, 60 x 90 ft., brick, concrete and steel, concrete foundation, to W. L. Hawk, 714 North Ollie St. About $52,000.

★**Ariz., Phoenix** — Office — D. B. Heard, Central and Adams Sts., et al, let contract constructing 4 story, 70 x 148 ft., rein.-con. and brick office and newspaper building, rein.-con. flooring, concrete foundation, to J. W. Martin, Phoenix. About $250,00.

★**Cal., Arcata** — School — State Eng. Dept., Forum Bldg., Sacramento, will build rein.-con. and brick school, to be known as Humboldt Normal School. About $250,000. Work will be done by day labor under supervision of J. W. Dutton, c/o State Eng. Dept., Forum Bldg., Sacramento.

★**Cal., Fresno**—Schools—Bd. Educ. engaged Trewitt & Shields, 1819 El Dorado St., to superintend construction of all schools under $2,000,000 bond issue. They will do all work expected of general contractor and will purchase materials and receive a compensation of 4% of cost. Bids will be received later on portions of work not usually included in general contract.

★**Cal., San Francisco**—Loft—Imperial Realty Co. let contract building 6 story, 50 x 120 ft., rein.-con., rein.-con. flooring, concrete foundation, on Geary St., to Barrett & Hilp, Sharon Bldg. About $150,000. Cost plus percentage basis. Livingston Bros., c/o G. A. Lansburgh, Gunst Bldg., lessee. Noted June 26.

★**Cal., Tulare** — Schools — School Trustees let contract building 2 schools, each containing 8 rooms, hollow tile walls, concrete foundation, to Barkelew & Gould, Fresno, $68,000. Noted May 8.

★**Que., Montreal**—Church and Presbytery—St. Augustine Roman Catholic congregation let contract building 60 x 110 ft., rein.-con., steel and brick, rein.-con. flooring, concrete foundation, on St. Viteu St., to M. J. Stack Co., 167 McCord St. About $135,000.

★**Ont., Oshawa**—Office—See "Industrial Works."

★**Ont., Trenton**—School—Pub. School Bd. let contract building 2 story, concrete, steel and brick, concrete foundation, to Acer & McNab, Trenton. About $60,000.

Federal Government Work

PROPOSED WORK

R. I., Newport—Structural Steel—Spec. 4023—Bureau Yards & Docks, Navy Dept., Wash., D. C., plans to furnish for torpedo repair job, here. About $10,000.

Pa., Ft. Mifflin—Fire Protection System—Spec. 3779—Bureau Yards & Docks, Navy Dept., Wash., D. C., soon receives bids extending fire protection system, here. About $20,000; $10 deposit required for plans and spec. Noted Jan. 30.

Pa., Phila.—Boat and Storage Building—Spec. 4012—Bureau Yards & Docks, Navy Dept., Wash., D. C., soon lets contract building, here. Noted July 31.

Pa., Phila.—Cranes—Spec. 4013—Bureau Yards & Docks, Navy Dept., Wash., D. C., soon lets contract installing cranes in boat and general storage building, here. Noted July 31.

Md., Baltimore—Dredging—Harbor Bd. petitioned Maryland congressmen to have bill introduced in Congress directing U. S. Chief of Engineers to have surveys made for dredging 40 ft. channel, from Cape Henry to Baltimore, distance about 150 nautical miles.

D. C., Wash.—Mechanical Equipment and Piping — Spec. 3708 — Bureau Yards & Docks, Navy Dept., soon receives bids installing mechanical equipment and piping for boiler shop, here. About $200,000; $20 deposit required for plans and spec. Noted Aug. 14.

D. C., Wash.—Timber Work—Spec. 4018—Bureau Yards & Docks, Navy Dept., soon receives bids for extension to quay wall, here. About $30,000; $10 deposit required for plans and spec. Noted Aug. 14.

S. C., Charleston—Mechanical Stokers—Spec. 4010—Bureau Yards & Docks, Navy Dept., Wash., D. C., soon receives bids installing, in central power plant, here. About $11,000; $10 deposit required for plans and spec. Noted July 31.

Ga., Dawson—Post Office—Treas. Dept., Wash., D. C., rejected bids received July 25, building here. J. A. Wetmore, supervg. archt. Noted July 31.

S. D., Rapid City—School—C. Sells, comr. Indian Affairs, Wash., D. C., rejected bids received July 16, building school at Indian School Reservation, here. Noted July 24.

Wash., Puget Sound — Building — Spec. 4009—Bureau Yards & Docks, Navy Dept., Wash., D. C., soon receives bids building extension to Building No. 178, here. About $50,000; $10 deposit required for plans and spec. Noted July 24.

Wash., Puget Sound (Bremerton P. O.)—Reciprocating Air Compressor—Spec. 3837—Bureau Yards & Docks, Navy Dept., Wash., D. C., soon receives bids installing, here. About $62,000; $10 deposit required for plans and spec. Noted Apr. 3.

BIDS DESIRED

R. I., Providence—Post Office and Custom House—Until Sept. 26, by J. A. Wetmore, supervg. archt., treas. dept., Wash., D. C., remodeling, here; advertised in this issue.

Conn., New Haven—Pump—Until Sept. 12, by J. A. Wetmore, supervg. archt., treas. dept., Wash., D. C., for motor driven triplex pump, in U. S. Post Office, here; advertised in this issue.

N. Y., Stapleton—Boiler Plant—Until Sept. 4, by J. A. Wetmore, supervg. archt., treas. Dept., Wash., D. C., for temporary boiler plant, at U. S. Marine Hospital, attendants quarters, here; advertised in this issue.

N. Y., Stapleton—Kitchen and Mess Hall—Until Sept. 15, by J. A. Wetmore, supervg. archt., treas. dept., Wash., D. C., for construction of kitchen and mess hall for U. S. Marine Hospital, here; advertised in this issue.

N. J., Lakehurst—Hangar—Spec. 4001—Until Sept. 8, by Bureau Yards & Docks, Navy Dept., Wash., D. C., building dirigible hangar at Naval Air Sta., here. Noted Aug. 14.

Del., Wilmington—Jetty Repairs—Until Sept. 18, by U. S. Eng. Office, Old Federal Bldg., repairing jetty at mouth of Broadkill River; advertised in this issue.

Md., Aberdeen—Road Work—Until Aug. 28, by J. D. Moen, constr. officer, Aberdeen Proving Ground, building 5 mi. concrete roads, 16 ft. and 20 ft. wide, all within reservation Aberdeen Proving Ground; advertised in this issue.

W. Va., Charlestown—Material—Until Sept. 22, by J. A. Wetmore, supervg. archt., treas. dept., Wash., D. C., furnishing material for building post office, here.

W. Va., Charlestown—Post Office—Until Sept. 22, by J. A. Wetmore, supervg. archt., treas. dept., Wash., D. C., building post office, here.

Ala., Florence—Floating Plant—U. S. Eng. Office, Florence, receiving bids for floating plant, two 12 in. non-condensing suction dredges with revolving cutters, 2 revolving sand and gravel screens, capacity 175 cu.yd. per hour each, 1 tow boat, 16 in. x 7 ft. non-condensing engines, 15 26 x 120 x 6 ft. barges, 1 8 x 40 ft. launch, about 40 h.p. Give full description, location, condition and price wanted; advertised in this issue.

La., New Orleans — Equipment — Until Aug. 27, by Bureau Yards & Docks, Navy Dept., Wash., D. C., for mechanical and electric equipment for power plant, here. About $115,000; $10 deposit required for plans and spec. Noted Aug. 14.

Tenn., Memphis—Earthwork—Until Sept. 11, by Mississippi River Comn., 1st and 2nd Dists., Custom House, building about 2,270,000 cu.yd. earth work in Upper St. Francis, Lower St. Francis and White River Levee Dists.; advertised in this issue.

Mich., Detroit—Alterations to Post Office—Until Sept. 7, by J. A. Wetmore, supervg. archt., treas. dept., Wash., D. C., altering lighting fixtures, etc., in Post Office, here; advertised in this issue.

Federal Government Work (Continued)

Ill., Chicago—Remodeling Electric Passenger Elevator—Until Sept. 12, by J. A. Wetmore, superv. archt., treas. dept., Wash., D. C., remodeling electric passenger elevator at U. S. Marine Hospital, here; advertised in this issue.

Montana—Road Work—Until Aug. 30, by Bureau Pub. Rds., U. S. Dept. of Agriculture, Missoula, grading and draining 3.6 mi. Glacier Park-Summit Natl. Forest Rd., Glacier Co. About $20,000. C. H. Purcell, Post Office Bldg., Portland, Ore., dist. engr. Noted May 1.

Mo., St. Louis—Earthwork—Until Sept. 15, by Secy. Mississippi River Comn., 1511 Internatl. Life Bldg., building about 155,000 cu.yd. earthwork in Clear Creek Drainage & Levee Dist., Ill.; advertised in this issue.

Col., Denver—Valves, Gates, etc.—Until Oct. 1, by U. S. Recl. Serv., furnishing balanced needle valves, high pressure emergency gates and sluice gate for North Tunnel of the Pathfinder Dam, North Platte Project, Nebraska-Wyoming. A. P. Davis, ch. engr.; advertised in this issue.

Nev., Winnemucca—Post Office—Until Sept. 15, by J. A. Wetmore, superv. archt., treasury dept., Wash., D. C., building, here; advertised in this issue.

Arizona—Bridge—Until Sept. 4, by Bureau Pub. Rd., U. S. Dept. of Agriculture, Albuquerque, N. M., building 215 ft. bridge over Salt River, near Tonto and Crook Natl. Forests, here. J. S. Bright, Luna Strickler Bldg., Albuquerque, N. M., dist. engr.

Cal., San Diego—Water and Sewer Systems and Fuel Oil Reservoir—Spec. 4007. Until Sept. 10, by Bureau Yards & Docks, Navy Dept., Wash., D. C., building, here. About $200,000; $10 deposit required for plans and spec. Noted July 24.

H. T., Honolulu—Post Office and Court House—Until Nov. 3, by J. A. Wetmore, superv. archt., treas. dept., Wash., D. C., building U. S. Post Office and court house, here. About $1,000,000.

PRICES AND CONTRACTS AWARDED

(★Indicates award of contract)

★**N. Y., New York**—Dredging—U. S. Engr. Office, 39 Whitehall St., let contract dredging in Raritan River, N. J., to Atlantic Gulf & Pacific Co., Park Row Bldg., $0.1489 per cu.yd. of stone measurement. Total cost, $225,000. Noted July 10.

★**Pa., Erie**—Dredging—U. S. Engr. Office, 540 Federal Bldg., Buffalo, N. Y., let contract dredging, trenching and filling with rock, capped with rubble mound and sand fill protection, on Presque Isle Peninsula, Erie Harbor, to Great Lakes Dredge & Dock Co., 104 South Michigan Ave., Chicago. About $214,000.

★**D. C., Wash.**—Pavements—Dist. Comrs., Dist. Bldg., let contract laying asphalt pavements, to Cranford Paving Co., Union Trust Bdg. About $150,000. Noted July 24.

★**D. C., Wash.**—Paving—Dist. Comrs., Dist. Bldg., let contract paving streets and avenues, sheet asphalt, to Cranford Paving Co., Union Trust Bldg. About $500,000. Noted Aug. 14.

★**S. C., Charleston**—Cranes—Spec. 3670—Bureau Yards & Docks, Navy Dept., Wash., D. C., let contract installing 2 cranes, here, to Morgan Eng. Co., East Bway., Alliance, O. About $93,550 (190 days).

★**Ill., Great Lakes**—Groins—Spec. 4004—Bureau Yards & Docks, Navy Dept., Wash., D. C., received only bid Aug. 13, building groins for shore protection, at Naval Training Sta., here, from Great Dredge & Dock Co., 104 South Michigan Ave., Chicago, $196,720 (90 days). Noted July 31.

★**Tex., Galveston** — Boathouse — Treas. Dept., Wash., D. C., let contract building boat house, boat basin and landing, for U. S. Quarantine Sta., here, to J. Jacobson, 313 22nd St., $39,566. Noted Aug. 7.

★**Utah**—Road Work—Dist. Comrs., Dist. Bldg., Salt Lake City, let contract building forest road from Logan to Garden City, earth with gravel or shale surface, to Christianson Constr. Co., Salt Lake City. About $120,100.

Miscellaneous

PROPOSED WORK

Gateway—Branford, Conn.—Town having plans prepared by R. Williams, archt., 185 Church St., New Haven, for granite and concrete memorial gateway, concrete foundation, at park entrance. About $25,000.

Swimming Pool, etc.—Woodmont, Conn.—W. H. Bradley, Center St., Meriden, had plans prepared by R. Williams, archt., 185 Church St., New Haven, for rein.-con. swimming pool, seawall and bathhouse, at summer home, on Hawley Ave., here. About $25,000.

Swimming Pool—Detroit, Mich. — City having plans prepared by Dept. Parks and Blvds. and Recreation Comn., 822 Farwell Bldg., for 100 x 300 ft., rein.-con. swimming pool, 2½ to 5½ ft. deep. About $10,000.

Road Grader — Cloquet, Minn. — City plans to purchase road grader. J. A. Parks, clk.

Cast Iron Pipe, Castings, Etc. — Tracy, Minn.—City plans to purchase c.i. water pipe and castings, also hydrants, gate valves, etc. J. R. Fletcher, clk.

Transmission Line — Arlington, Kan. — City voted $20,000 bonds to build electric transmission line.

Transmission Line — Partridge, Kan. — City voted $20,000 bonds to build transmission line.

Dam—Eastland, Tex.—City plans to build dam across north fork of Leon River, ¼ mi. long. About $124,000.

Wharf, Dock—Orange, Tex.—City plans to build wharf and dock. About $150,000. C. H. Page & Bros., Austin Natl. Bank Bldg., Austin, archts. W. E. Simpson & Co., Hicks Bldg., San Antonio, engrs.

Cables — Spokane, Wash. — Home Telephone Co., 501 2nd St., plans to build underground and aerial cables in Glenwood Dist. near Hillyard. About $10,000. H. A. Shearer, engr.

Harbor Improvements—Richmond, Cal.—City election Sept. 23, to vote on $400,000 bonds for harbor improvements to include 15,250 ft. sheet piling, cost, $130,000, and dredging certain channels, etc. U. S. will also dredge certain channels. Federal government will expend $328,000.

BIDS DESIRED

Water Machinery — Trenton, N. J.—Until Aug. 29, by A. Bugbee, supt. city comn., furnishing 25,000,0000 and 20,000,000 gal. steam driven centrifugal pumps, 1 generator, 1 motor, appurtenances, etc. at city pumping station. About $150,000. J. R. Fell, 134 North Clinton Ave., engr.

Bulkhead Wharf and Shelter Sheds — Wilmington, Del. — Until Sept. 2, by Bd. Harbor Comrs., City Hall, building 476 ft., timber and rein.-con. bulkhead wharf, and the necessary dredging incident thereto. **C. H. Grant, secy.; advertised in this issue.**

Cistern—Duluth, Minn.—Until Aug. 25, by G. P. Phillips, city comr., building rein.-con. cistern, 200,000 gal. capacity, 38 ft. diameter, 25 ft. high, for Duluth Water & Light Dept., Commercial Club Bldg. H. G. Tischer, city engr.

Pump—Bruce, S. D.—Until Sept. 5, by City Clerk furnishing 1750 h.p. motor-driven pump, 350 gal. per minute. L. P. Wolff, Guardian Life Bldg., St. Paul, Minn., engr.

Road Oil—St. Louis, Mo—Until Aug. 27, J. F. Thomas, supply comr., 317 City Hall, furnishing Street Dept., with 300,000 gal. light weight road oil. Noted Aug. 14.

Pier Shed — Seattle, Wash. — Until Sept. 2, by Port of Seattle Comn., building Pier B East Shed, 120 x 1000 ft., mill construction, at Smith's Cove Terminal. About $500,000. Noted Aug. 7 under "Smith Cove."

Protection Works — Laprairie, Que. — Until Aug. 28, by Dept. Pub. Wks., Ottawa, for protection work improvements to dyke, involving timbr and stone fill. About $11,000. E. Lafleur, Ottawa, Ont., engr. Noted Aug. 7.

PRICES AND CONTRACTS AWARDED

(★Indicates award of contract)

Lumber and Piles—New York, N. Y.—Dept. Docks & Ferries, received lowest 3 bids Aug. 12, furnishing and delivering lumber and piles, from Central Timber Export Co., 115 Bway., $28,586; S. A. Miner, 17 Battery Pl., $32,232; H. S. La Fond Co., 1 Madison Ave., $138,023.

★**Paving Material — New York, N. Y.**—H. Bruckner, pres. Bronx Boro., let contract furnishing and delivering 150,000 gal. tar road oil, to Barrett Co., 17 Battery Pl., $15,000; 3000 bags Portland cement and 5000 cu.yd. 1½ in. broken trap rock, rock stone and 2500 cu.yd. broken trap rock stone screening, to New York Trap Rock Corp., 101 Park Ave., $21,478. Noted July 17.

Plumbing—New York, N. Y.—Dept. Educ. received lowest 3 bids for plumbing and drainage of addition to and alterations in P.S. 6, on Tremont Ave., Bronx Boro., from J. J. Kenney, 236 West 20th St., $43,000; J. A. Graf, 152 Canal St., $44,782; Wells Newton Co., Ave. B and 17th St., $45,813.

Roof—Randalls Island, N. Y.—I. Townsend, pres. bd. mgrs., received bids repairing roof for House of Refuge, here, from Connors Bros. Co., Inc., 15 West 91st St., $11,911; P. T. Cox Contg. Co., Inc., 114 Nassau St., $12,700; J. M. Knopp, 544 West 43rd St., $19,255. Contractors all of New York City.

Harbor Improvements—Atlantic City, N. J.—City received bids improving harbor, from Matthew Bros., Red Bank, $187,382; Coast & Inland Dredging Co., $187,382. Noted July 10.

★**Dam — Morris Plains, N. J.** — Dept. Architecture, 142 West State St., Trenton, let contract building dam near State Hospital, here, to Underground Specialty Co., 1476 Bway, New York City. About $14,600. Noted June 19.

★**Paving Block—McKeesport, Pa.**—City let contract furnishing 130,000 Hillside paving block for use in Spring St., to Metroplitan Brick Co., McKeesport, $33.75 per 1000.

★**Crane Shed—Detroit, Mich.**—Studebaker Corp., Brush St. and Harper Ave., let contract building 1 story, 40 x 200 ft., steel crane shed, rein.-con. flooring, concrete foundation, to Wisconsin Bridge & Iron Co., 1362 Penobscot Bldg.

Roof Trusses — Detroit, Mich. — City Water Comn., 232 Jefferson Ave., received bids furnishing and building roof trusses and roof complete over engine room and pumping station (span of trusses 67 ft., building 67 x 307 ft.), from Wisconsin Bridge & Iron Co., 1362 Penobscot Bldg., $62,000; Culbertson & Kelly, 814 Ford Bldg., $70,997; Whitehead & Kales, Beecher St. and Michigan Central Ry., $84,365.

★**Paving Blocks—Kalamazoo, Mich.**—City let contract furnishing 1,800,000 paving bricks, f.o.b Kalamazoo, to Carlisle Paving Brick Co., Portsmouth, O., $64,430. Noted May 15.

★**Foundation — Duluth, Minn.** — Fidelity Investment Co., Lake Ave., S., let contract for foundation for 4 story, 114 x 252 ft. office, to Jacobson Bros., Columbia Bldg., $60,200. Noted Aug. 7.

★**Lamp Standards — Osawatomie, Kan.**—City let contract furnishing 102 metal lamp standards, etc., to Kelley Constr. Co., 314 South Barstow St., Eau Claire, Wis., $10,949.

★**Tank and Tower — Sharon Springs, Kan.**—City let contract building 50,000 gal. tank and 100 ft. tower, to Chicago Bridge & Iron Co., 105th and Thropp Sts., Chicago.

★**Foundation—Denver, Colo.**—Denver Post Printing and Publishing Co., 1544 Champa St., let contract building concrete foundation for 4 story, 50 x 125 ft. publishing house, on Champa St., between 15th and 16th Sts., to Kress Constr. Co., Denver. About $20,000.

★**Rolling Doors—Portland, Ore.**—Comr. Pub. Docks let contract furnishing steel rolling doors at dock sheds, St. Johns Terminal, to Variety Mfg. Co., Portland. About $14,150.

★**Bulkhead — Los Angeles, Cal.** — See "Streets & Roads."

★**Foundation—Los Angeles, Cal.** — Goodyear Tire & Rubber Co., Market St., Akron, O., let contract building foundation for 3 story, 300 x 580 ft. rubber mill, at 6701 Central Ave., here, to Hunkin-Conkey Constr. Co., 6701 Central Ave. About $60,000. Noted July 31 under "Industrial Works."

★**Lighthouse—Ottawa, Ont.**—Dept. Marine let contract building rein.-con. lighthouse, fog alarm and dwelling combined, in Triple Island, Northern British Columbia, to J. H. Hilditch, Prince Rupert. About $35,000.

OFFICIAL PROPOSALS

Bids: Sept. 12.

Canal Improvements

STATE OF NEW YORK
OFFICE OF SUPERINTENDENT OF PUBLIC WORKS
Albany, N. Y.

Sealed proposals will be received by the undersigned at his office in the Capitol at Albany, N. Y., until twelve o'clock noon of Friday, September 12th, 1919, at which place and hour they will be publicly opened and read, for improving the New York State canals pursuant to the provisions of Chapter 147 of the Laws of 1903, and amendatory and supplementary laws, and Chapter 735 of the Laws of 1917 and Chapter 634 of the Laws of 1919, as follows:

SCHENECTADY—SCOTIA BRIDGE ABUTMENTS AND APPROACHES

This contract will provide for constructing the abutments and approaches of a reinforced concrete bridge, to extend from the junction of State Street and Washington Avenue in the city of Schenectady, across the Barge Canal terminal channel, Van Slyck Island, the Barge Canal main channel, Hog Island and the Scotia channel, to a point about three hundred feet north of the junction of Schonowee Avenue and Mohawk Avenue in the village of Scotia.

The construction of all roadway pavements, concrete sidewalks and curbs supported on new fill, track work, trolley wires and feeders, lamps and wiring, drains and other incidental work, will not form a part of this contract; also, a gap will be left in the Scotia approach to provide for the maintenance of traffic for electric cars, vehicles and pedestrians.

Contract plans, sheets 1 to 7 inclusive.

All work must be completed before the expiration of fifteen months after the date of signing the contract.

Plans may be seen and detailed specifications, engineer's estimate of quantities, proposal blanks, forms of contract and bonds required, and other information for proposers, may be had at the office of the Superintendent of Public Works at Albany, N. Y., at the office of the Assistant Superintendent of Public Works for the Eastern Division, Wedgeway building, Schenectady, N. Y., at the office of the Assistant Superintendent of Public Works for the Middle Division at Syracuse, N. Y., at the office of the Assistant Superintendent of Public Works for the Western Division at Rochester, N. Y., and at the canal office, Spaulding's exchange, Buffalo, N. Y.

Copies of detailed plans or drawings may be obtained from the State Eengineer and Surveyor at Albany, N. Y., upon payment to him of the cost of producing them.

Monthly estimates will be paid of ninety per centum (90 per cent.) of the work done at the contract price. Every proposal for said work must be accompanied by a money deposit in the form of a draft or certified check upon some good banking institution in the city of Albany or New York, issued by a national or state bank in good credit within the state and payable at sight to the Superintendent of Public Works for five per centum (5 per cent.) of the amount of the proposal.

The person whose proposal shall be accepted will be required to execute a contract and furnish bonds within ten days from the date of notice of award delivered to him or them in person or mailed to the address given in the proposal.

Upon execution of the contract and approval of bonds, the certified check or draft will be returned to the proposer unless the same shall have been presented for collection prior to such time, in which case the amount of the deposit will be refunded by the Superintendent of Public Works.

The deposits of bidders other than the one to whom the award of contract shall be made will be returned immediately after the award has been made.

The bond required for the faithful performance of the contract shall be in such sum as shall be fixed by the Superintendent of Public Works, which sum shall not be less than twenty per centum (20 per cent.) of the estimated cost of the work according to the contract price, and an additional bond, known as the labor bond, in the sum of ten per centum (10 per cent.) of the amount of the estimated cost of the work according to the contract price, will be required as security that the contractor will pay in full at least once in each month all laborers employed by him upon the work specified to be done in the contract.

In the event that more than one surety company is offered as surety on said bonds co-insurance only will be accepted.

Each proposal must be addressed to the Superintendent of Public Works, Albany, N. Y., and must be endorsed on the envelope with the name of the construction for which the proposal is made.

Award, if made, will be made to the person or persons whose proposal shall be lowest in cost to the State for doing the work, and which shall comply with all provisions required to render it formal. Before any award shall be made the lowest bidder will be required to satisfy the Superintendent of Public Works of his ability to provide suitable equipment and materials for the proper performance of the work.

The right is reserved to reject all proposals and readvertise and award the contract in the regular manner if, in the judgment of the undersigned, the interests of the state will be enhanced thereby.

EDWARD S. WALSH,
Superintendent of Public Works.

The publication of an advertisement on this page is an official notice that bids are wanted from other than local bidders.

It is also a guarantee that maximum competition is invited because Engineering News-Record is the *one* nationally recognized medium for Proposal advertising. Its Searchlight Section is read each week by nearly every worth-while contractor in this country who bids on public work outside his own city.

Official Proposals reaching our office in first mail Wednesday morning (9 o'clock) can usually be published in the issue out the next day. Special price for Official Proposals, $3.60 an inch.

Bids: Sept. 9.

Bulkhead Wharf and Shelter Sheds

Wilmington, Del.

Proposals will be received until Tuesday, September 9th, 1919, at the office of the Board of Harbor Commissioners, City Hall, Wilmington, Del., for the construction of a timber and reinforced concrete bulkhead wharf, approximately 476 feet long, and the necessary dredging incident thereto.

Plans and specifications for the work may be obtained upon application to the undersigned and upon the deposit of Ten ($10.00) Dollars, which sum will later be refunded upon the return of said plans and specifications.

No proposal will be considered unless accompanied by a certified check to the order of the Board of Harbor Commissioners for Two Thousand Five Hundred Dollars ($2500.00), or a satisfactory guaranty bond in equal amount.

The right is reserved to reject any or all bids.

Board of Harbor Commissioners,
City Hall,
Wilmington, Del.
CHARLES H. CANT,
Secretary.

Bids: Sept. 4.

Construction, Heating, Sanitary and Electric Work

Troy, N. Y.

Sealed proposals for Construction, Heating, Sanitary and Electric Work, State Armory, Troy, N. Y., will be received by Col. Frank W. Ward, Secretary, State Board of Armory Commissioners, 158 State Street, Albany, N. Y., until 3 o'clock P.M. on Thursday, Sept. 4, 1919, when they will be publicly opened and read. Proposals shall be enclosed in an envelope furnished by the State Architect, sealed and addressed, and shall be accompanied by a certified check in the sum of five per cent (5 per cent) of the amount of the proposal. The contractors to whom the awards are made will be required to furnish surety company bond in the sum of fifty per cent (50 per cent) of the amount of the contract within thirty (30) days after official notice of award of contract and in accordance with the terms of Specifications Nos. 3327, 3328, 3329 and 3330. The right is reserved ot reject any or all bids. Drawings and specifications may be consulted at the Armory of the 2nd Infantry, Bolton Hall, Troy, N. Y., at the Office of the State Board of Armory Commissioners, 158 State Street, Albany, N. Y., and at the New York Office of the Department of Architecture, Room 618 Hall of Records Building, and at the Department of Architecure, Capitol, Albany, N. Y. Drawings and specifications and blank forms of proposal may be obtained at the Department of Architecture, Capitol, Albany, N. Y., upon reasonable notice to and in the discretion of the State Architect, L. F. PILCHER, Capitol, Albany, N. Y.

Dated: August 1, 1919.

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